HITACHI CMT-2118/2518

MODEL

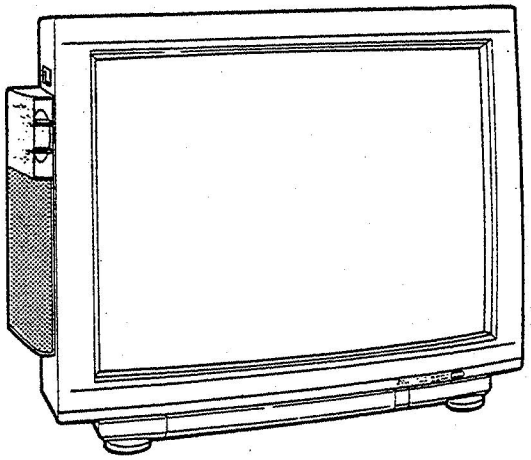
SERVICE MANUAL

HITACHI
SERVICE MANUAL

YK | No.0357E

PAL/SECAM/NTSC

G9PL Chassis



CONTENTS

SEFETY PRECAUTIONS 2
PRODUCT SAFETY NOTICE 2
MAIN FEATURES 2
CONTROLS 3
REMOTE CONTROL UNIT 4
BASIC CIRCUIT DIAGRAM 5
PRINTED WIRING BOARD 17
REPLACEMENT PARTS LIST 23

CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

TECHNICAL SPECIFICATIONS

Reception system	625lines	B.G/I/D.K/H PAL B.G/D.K/K'/SECAM NTSC50.
	525-lines	M/NTSC, NTSC3.58 NTSC4.43-5.5/6.0/6.5 PAL60.
Channel coverage	CCIR	:E2∿12, E21∿69, 01∿3, S1∿10, S11∿20.
	OIRT	:R1∿12, R21∿69.
	JAPAN	:J1∿12, J13∿62.
	U.S.A.	:US2∿13, J∿W, US14∿69.
	Hong Kong, U.K.	: UK21∿69.
	China	: C1∿12, C13∿57.
Aerial input	75 ohm unbalanced.	

Colour picture tube	CMT2518: A59JVQ60X (C) CMT2718: A64JVQ60X (C) CMT2918: A68KFS60X (C)
Speakers	6 cm x 4 cm x 2, 10 cm dia. x 2
Sound output	Max. 10W x 2
Power supply	AC 110V/220V (Usable range: 100∿280V) 50/60 Hz
Power consumption.....	CMT2518: 126W CMT2718: 129W CMT2918: 139W
Dimensions ..... (W x H x D)	CMT2518: 67.8 x 51.1 x 46.0 cm CMT2718: 72.0 x 55.0 x 49.5 cm CMT2918: 75.0 x 57.5 x 49.5 cm
Weight	CMT2518: 31.0 kg CMT2718: 37.0 kg CMT2918: 42.0 kg

* Specifications are subject to change without notice to improve perfomance.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

SOLID STATE COLOR TELEVISION

September 1990 **YOKOHAMA WORKS**

SAFETY PRECAUTIONS

WARNING: Since the chassis of this receiver is connected to one side of the Mains Supply during operation, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of equipment. The following precautions should be observed.

1. Do not install, remove, or handle the picture tube in any manner unless shatter-proof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep picture tube away from the body while handling.
2. When replacing chassis in the cabinet, all the protective devices are put back in place, such as; barriers, non-metallic knobs, adjustment and compartment cover or shields, isolation resistor-capacitor, etc.
3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
4. Always use the manufacture'rs replacement component. Especially critical components as indicated on the circuit diagram should not be replaced by other makes.
   Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
5. Before returning a serviced receiver to the customer, the service technician must throughtly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective, or inadvertenly defeated during servicing.
   Therefore, the following checks are recommended for the continued protection of the customers and service technicians.

INSULATION

Insulation resistance should not be less than 7MΩ at 500V DC between the mains poles and any accessible metal parts. Also, No flashover or breakdown should occur during the dielectric strength test, to apply 4KV AC for one minute between the mains poles and any accessible metal parts.

X-RADIATION

TUBES: The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X radiation.
For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type.

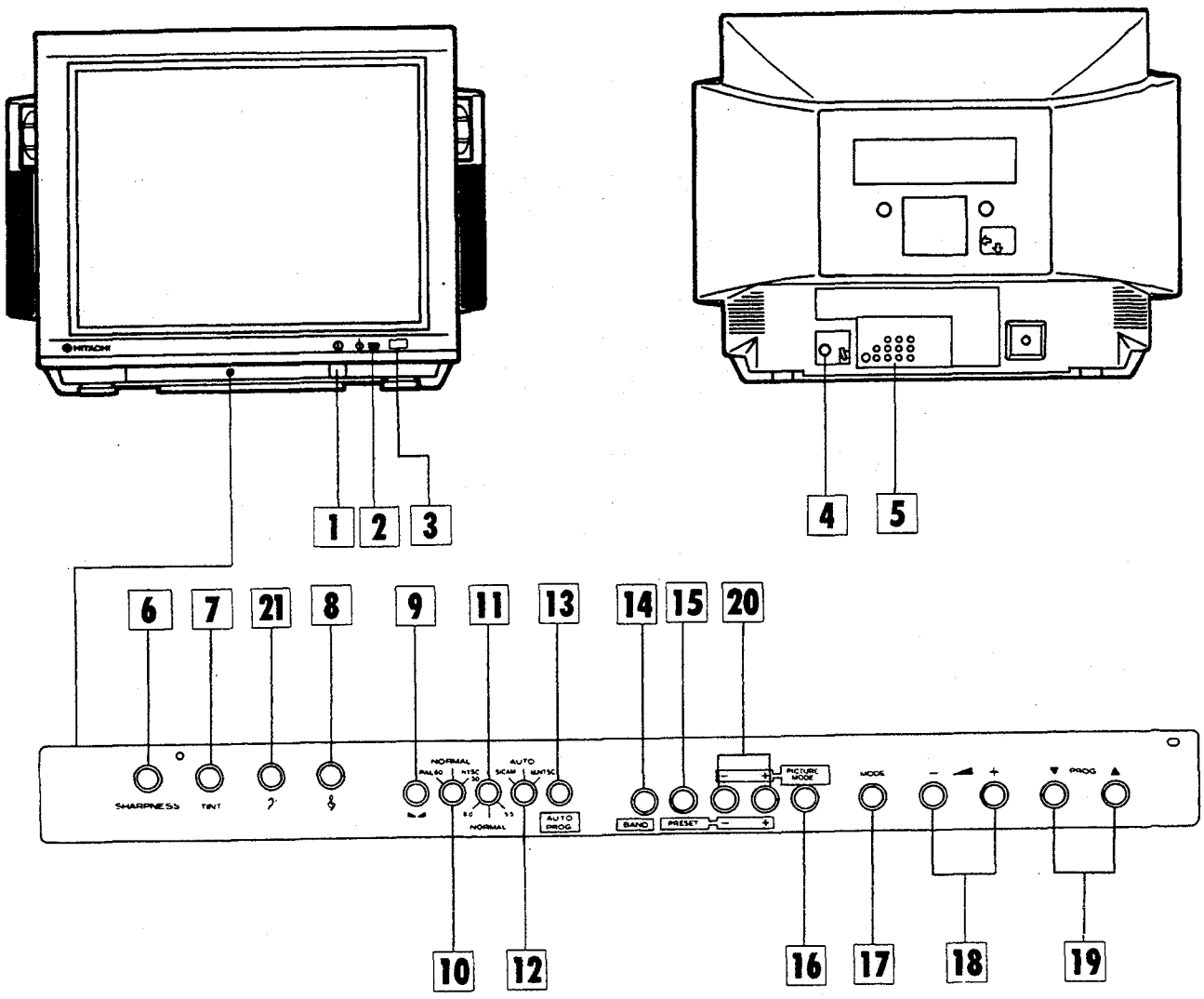
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television reciever have special safety related characteristics. These characteristics are often not evident from visual inspection nor can be protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and on the replacement parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one shown in the parts list in this Service Manual, may create electrical shock, fire, X radiation, or other hazards.
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of, HITACHI Service Manual may be obtained at a nominal charge from your HITACHI SALES CORPORATION.

MAIN FEATURES

1. Auto programming system.
2. A/V input terminals (2 systems), A/V output terminals, S input terminals (PAL, NTSC)
3. Off-timer function.
4. Various on-screen display.
5. Dynamic noise reduction.

CONTROLS



1 Power ON/OFF switch

2 Stand-by indicator

3 Remote control light receiver

4 Aerial input terminal

5 AV IN/OUT terminals

6 Sharpness control

7 Tint control

8 Treble control

9 Balance control

10 PAL60/NTSC50 switch

11 NICAM interfence switch (NTSC3.58-5.5/6.0 switch)

12 System switch

13 Auto programme button

14 Band select button

15 Preset button

16 Picture mode button

17 Mode button

18 Volume UP/DOWN button

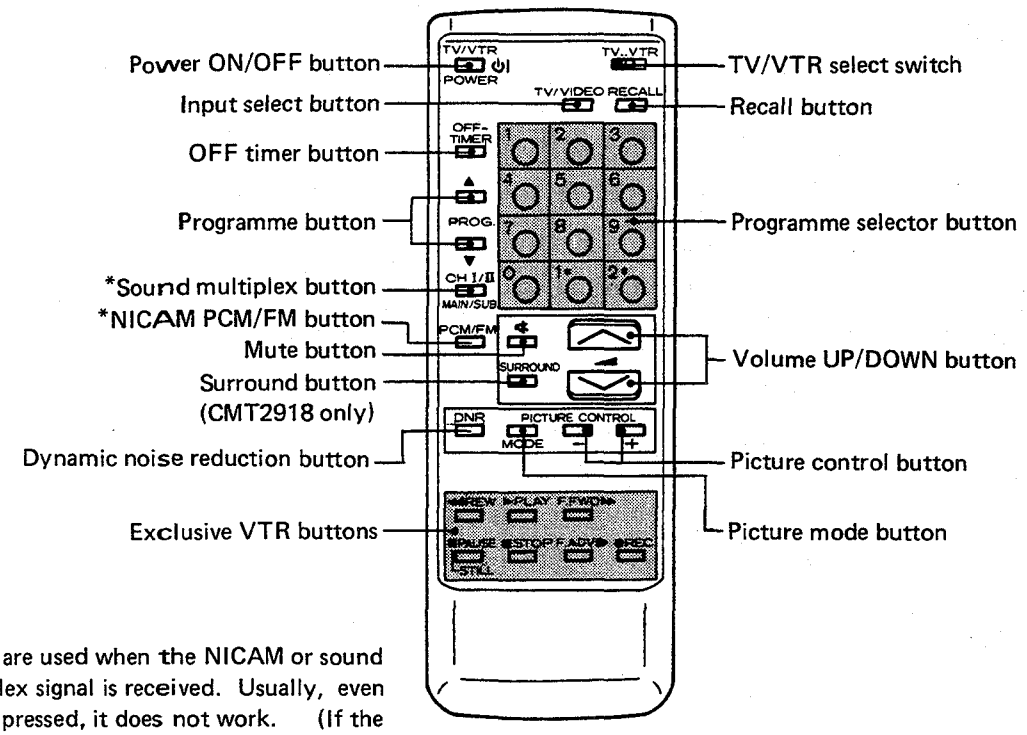
19 Programme UP/DOWN button

20 UP/DOWN buttons (For picture control, search)

21 Bass control

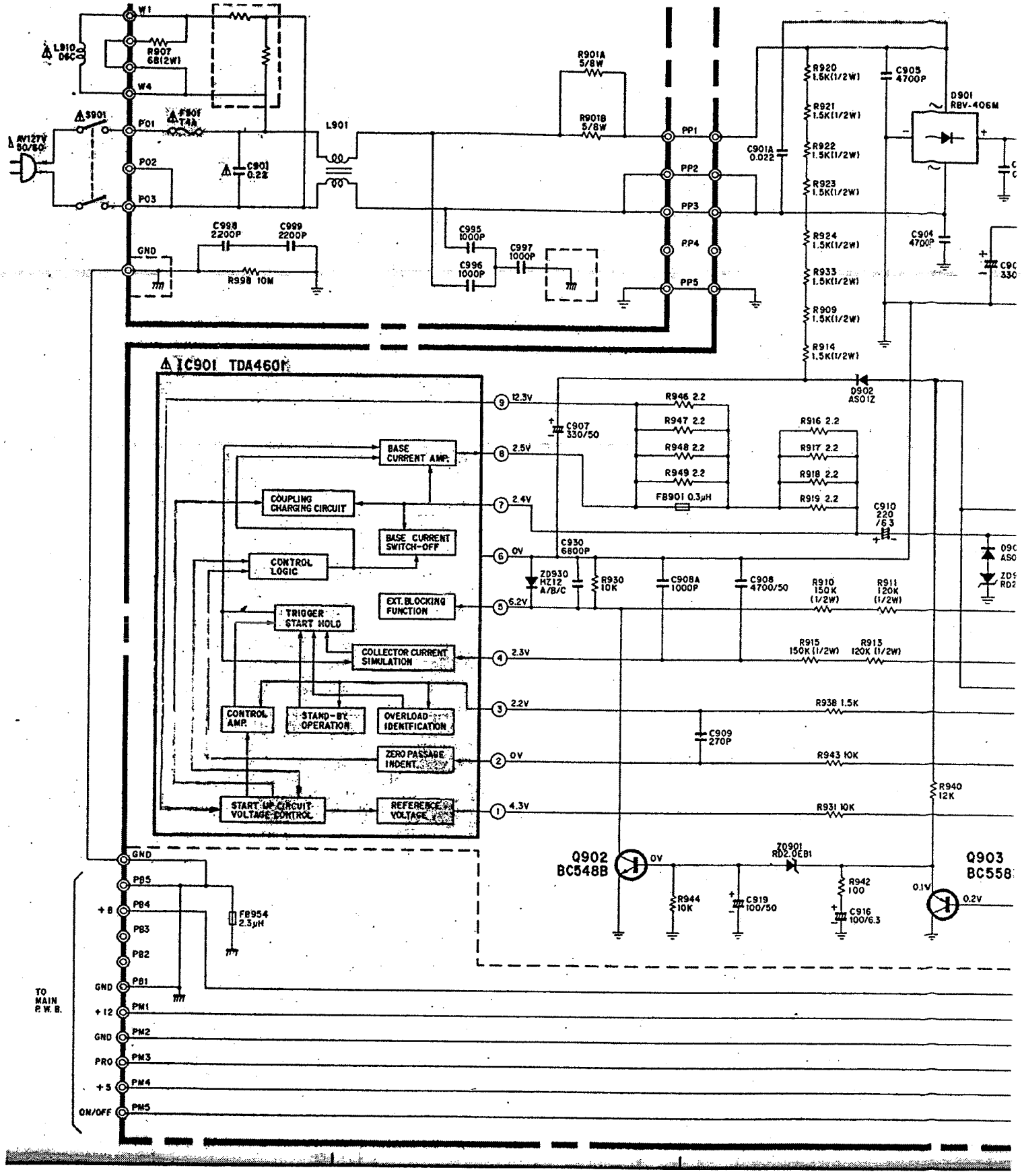
Note: "AV" position (positions 29, 0) is provided for the convenience of VTR playback.
"AV" 0 position ..... PAL 60
"AV" 29 position ..... Others

REMOTE CONTROL UNIT



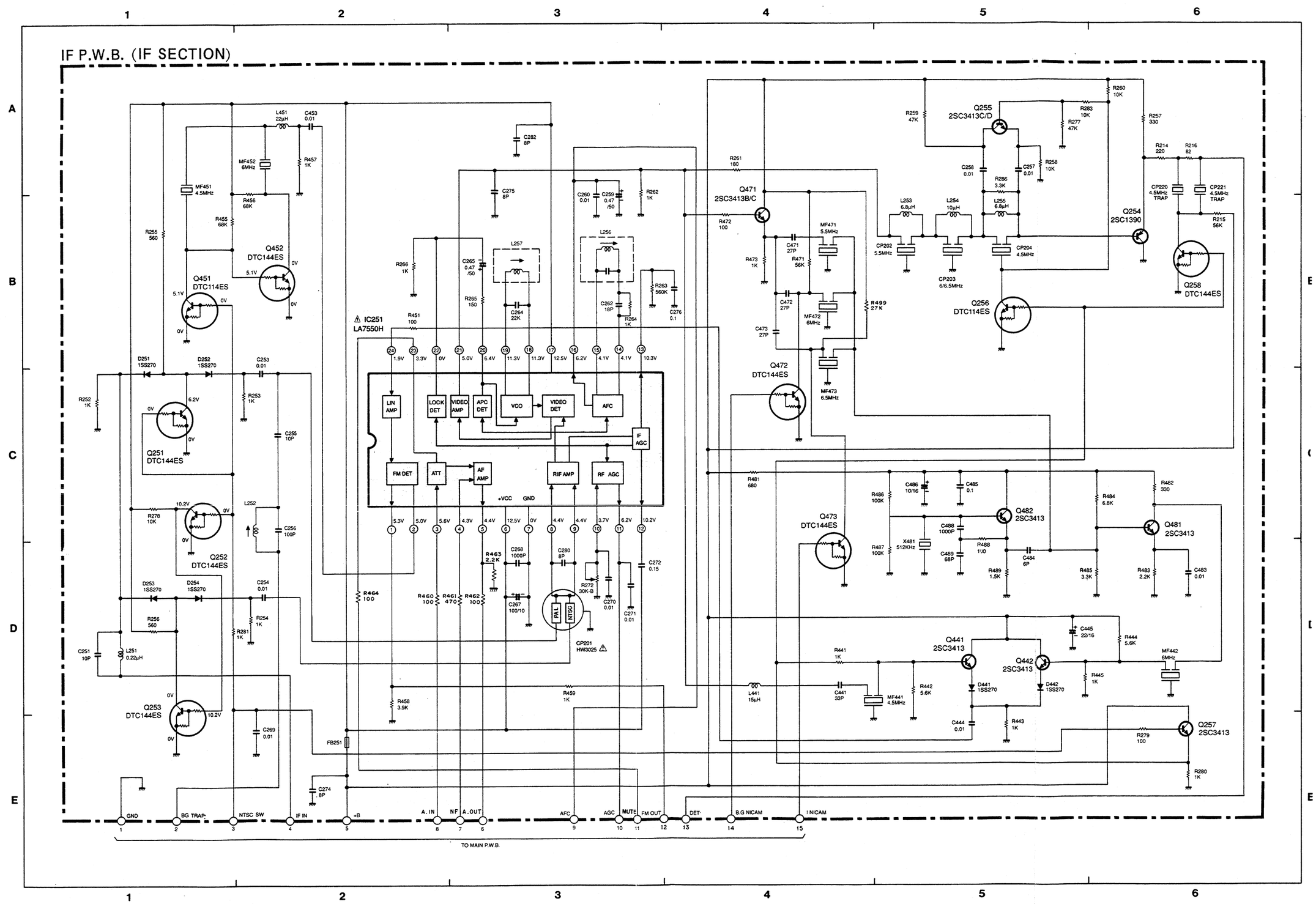
These are used when the NICAM or sound multplex signal is received. Usually, even if it is pressed, it does not work. (If the NICAM or sound multplex adapter is not attached, this cannot be used. Contact your dealer for details.)

REMOTE CONTROL CIRCUIT DIAGRAM

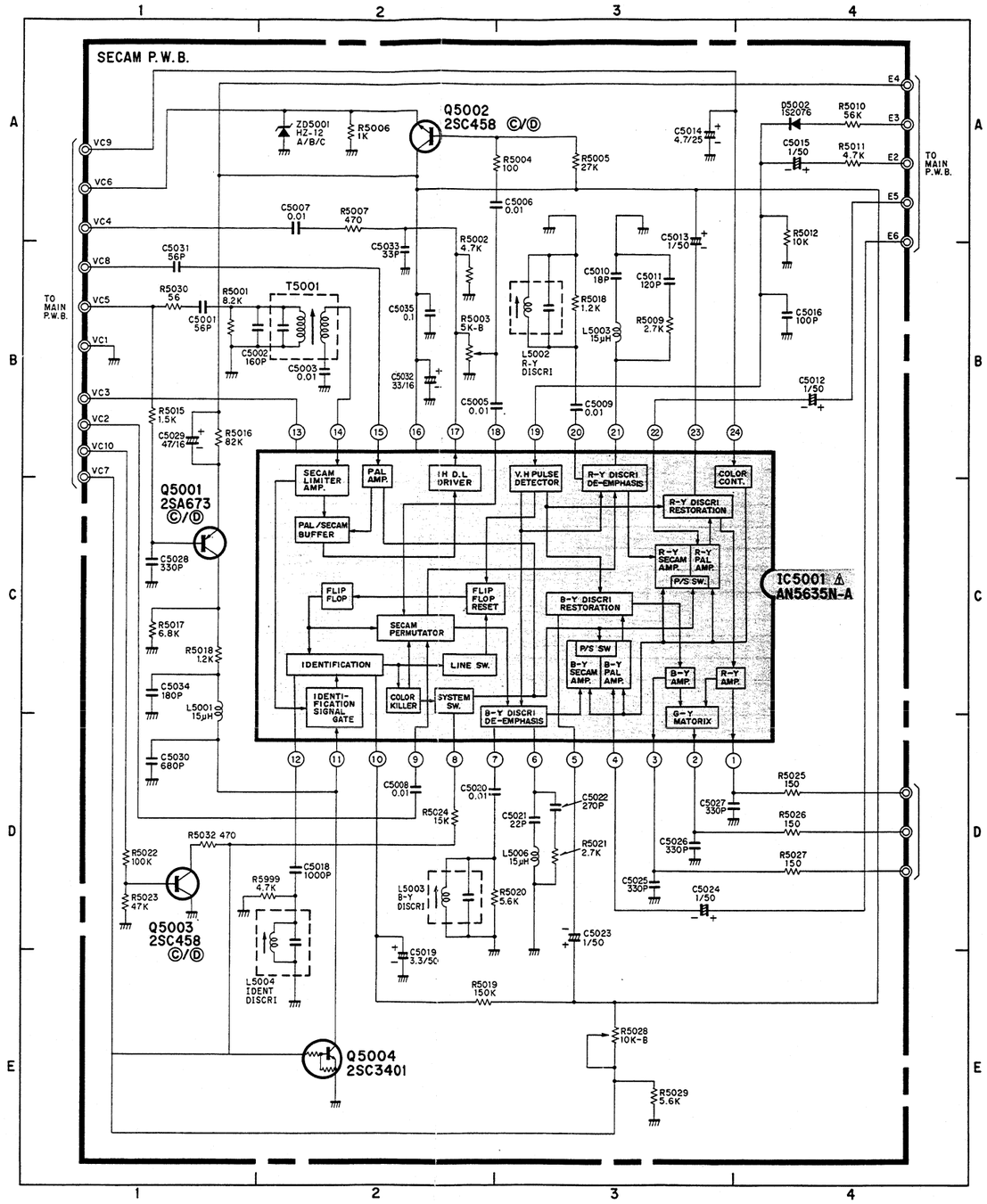

W1
W4
R907 68(2W)
L910 06C
S901
F901 T4A
AV127V 50/60
P01
P02
P03
C901 0.22
L901
R901A 5/8W
R901B 5/8W
PP1
PP2
PP3
PP4
PP5
C901A 0.022
R920 1.5K(1/2W)
R921 1.5K(1/2W)
R922 1.5K(1/2W)
R923 1.5K(1/2W)
R924 1.5K(1/2W)
R933 1.5K(1/2W)
R909 1.5K(1/2W)
R914 1.5K(1/2W)
C905 4700P
D901 RBV-406M
C904 4700P
C998 2200P
C999 2200P
R998 10M
C995 1000P
C996 1000P
C997 1000P
GND
IC901 TDA4601
BASE CURRENT AMP.
COUPLING CHARGING CIRCUIT
BASE CURRENT SWITCH-OFF
CONTROL LOGIC
EXT. BLOCKING FUNCTION
TRIGGER START HOLD
COLLECTOR CURRENT SIMULATION
CONTROL AMP.
STAND-BY OPERATION
OVERLOAD IDENTFICATION
ZERO PASSAGE INDENT.
START UP CIRCUIT VOLTAGE CONTROL
REFERENCE VOLTAGE
9 12.3V
8 2.5V
7 2.4V
6 0V
5 6.2V
4 2.3V
3 2.2V
2 0V
1 4.3V
C907 330/50
R946 2.2
R947 2.2
R948 2.2
R949 2.2
FB901 0.3µH
R916 2.2
R917 2.2
R918 2.2
R919 2.2
D902 AS01Z
C910 220 /63
C930 6800P
ZD930 HZ12 A/B/C
R930 10K
C908A 1000P
C908 4700/50
R910 150K (1/2W)
R911 120K (1/2W)
R915 150K (1/2W)
R913 120K (1/2W)
R938 1.5K
C909 270P
R943 10K
R940 12K
R931 10K
Q902 BC548B
Q903 BC558
ZD901 RD2.0EB1
R944 10K
C919 100/50
R942 100
C916 100/6.3
0.1V
0.2V
FB954 2.3µH
TO MAIN P.W.B.
P85
P84
P83
P82
P81
PM1
PM2
PM3
PM4
PM5
+8
GND
+12
GND
PRO
+5
ON/OFF

IF CIRCUIT DIAGRAM

IF P.W.B. (IF SECTION)



SECAM CIRCUIT DIAGRAM



BASIC CIRCUIT DIAGRAM (1/2)

MAIN P.W.B. 1/2

TO IF P.W.B.

TO CPT P.W.B.

TO SOUND MULTI (ADAPTABLE)

ANT.
AGC
VT
AFC
BM
IF
BL
BH
BU

⚠ U001 ET-575S

CP050 77MHz

⚠ CP001 IF AMP

⚠ IC1102 LA7910

⚠ CP051

VOL
TRE
BAL
BASS
+12
GND
(R)
(L)
+111V
GND
GND
+12V
GND
PROTECT

TO SOUND OUTPUT P.W.B.

TO POWER SUPPLY P.W.B.

NTSC 50
PAL 60
SECAM
3.58 NTSC

L1103 100μH

Q4401~Q4405 2SC3413 Ⓒ/Ⓓ x5

⚠ CP1101 SPS409

AMP.
LIMITER LEVEL SHIFT
BIAS
AUTO BIAS LEVEL CONTROL
PEAK DETECTOR
WAVE SHAPING

CMT2918 ONLY

Q1101 2SC458 Ⓒ/Ⓓ
Q1102 PST529C
Q1103 DTC114ES
Q1104 2SC3413 Ⓒ/Ⓓ
Q1105 2SC3413 Ⓒ/Ⓓ
Q1106 2SC3413 Ⓒ/Ⓓ
Q1107 2SC3413 Ⓒ/Ⓓ
Q1110 2SC3413
Q1111 2SC3413 Ⓒ/Ⓓ
Q1112 2SC3413 Ⓒ/Ⓓ
Q1113 DTC124ES
Q1114 2SC3413 Ⓒ/Ⓓ
Q1115 2SC3413 Ⓒ/Ⓓ
Q1117 2SC3413 Ⓒ/Ⓓ
Q201 DTC144ES
Q401 2SC3413 Ⓒ/Ⓓ
Q4401
Q4402
Q4403
Q4404
Q4405

IC1103 LA9710

⚠ IC1101 M34300N4-657SP

POWER
CONT-ROLLER CHARACTOR OUTPUT
SKEW SW.
KEY SCAN
RESET
AFS IN
S/NC IN
VOL
BRIGHT
CONTRAST
COLOR
REMOCON IN
SURROUND ON/OFF
PCM/FM SW.
BAND SW.
TUNING
CPU
OSC FOR CHARACTOR
CHARACTOR POSITION CONTROL
TV/VIDEO SW.
OSC
CH I/II
AFT
NTSC 4.43SW
L/OTHER SW
KEY SCAN
KEY PETERN

S1101 UP DN. PROG. UP DN. VOL. TV/VIDEO
S1102 PIC + − BAND PRESET AUTO

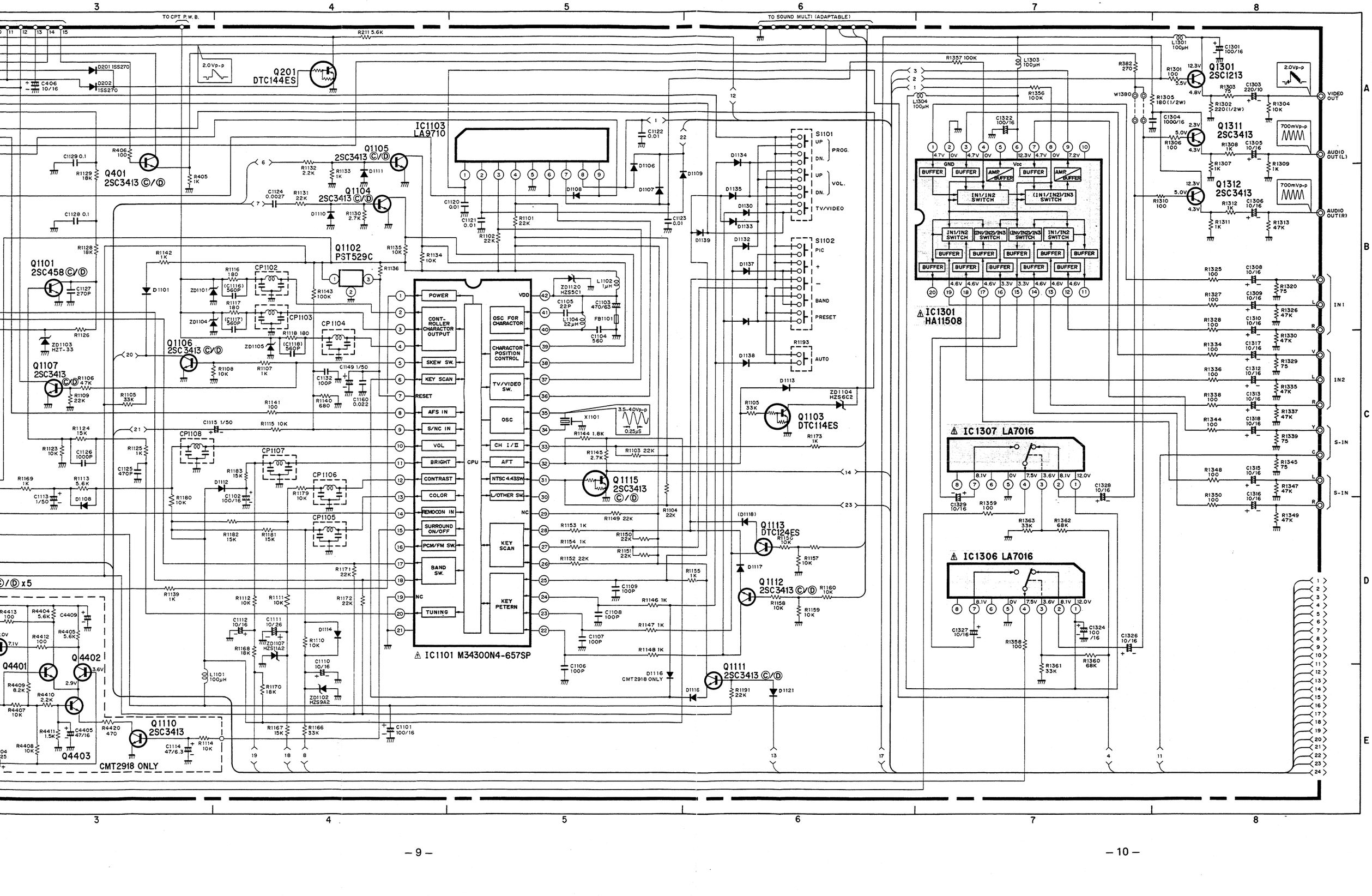
D1101 D1108 D1109 D1110 D1111 D1112 D1113 D1114 D1115 1SS270TA D1116 D1117 D1120 D1121 D1130 D1132 D1133 D1134 D1135 D1137 D1138 D1139 D201 1SS270 D202 1SS270 (D1118)

ZD1101 ZD1104 ZD1105 ZD1102 HZS9A2 ZD1103 HZT-33 ZD1104 HZS6C2 ZD1107 HZS11A2 ZD1120 HZS5C1

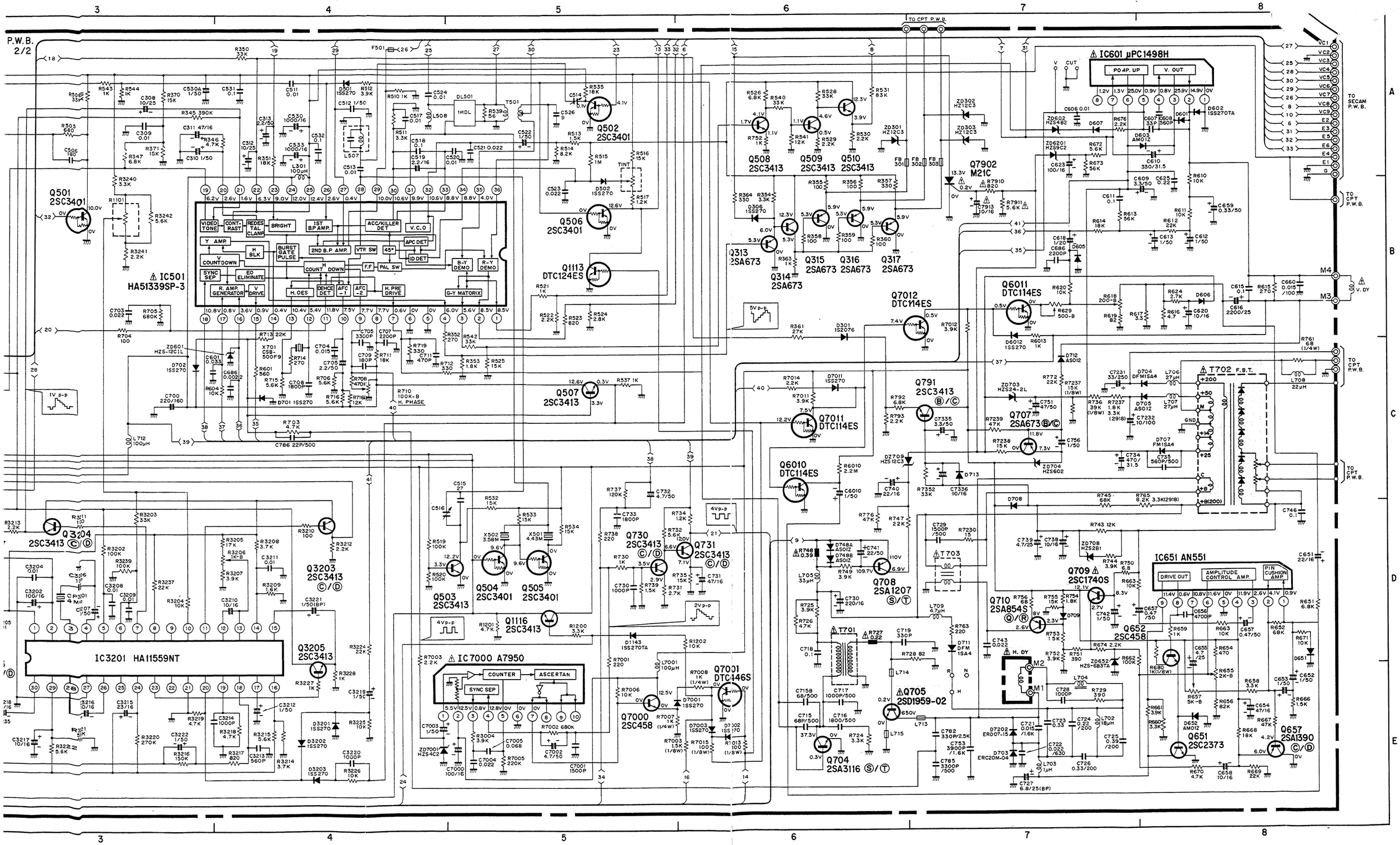
X1101 3.5-4.0Vp-p 0.25μS

2.0Vp-p

BASIC CIRCUIT DIAGRAM (1/2)



BASIC CIRCUIT DIAGRAM (2/2)



BASIC CIRCUIT DIAGRAM (2/2)

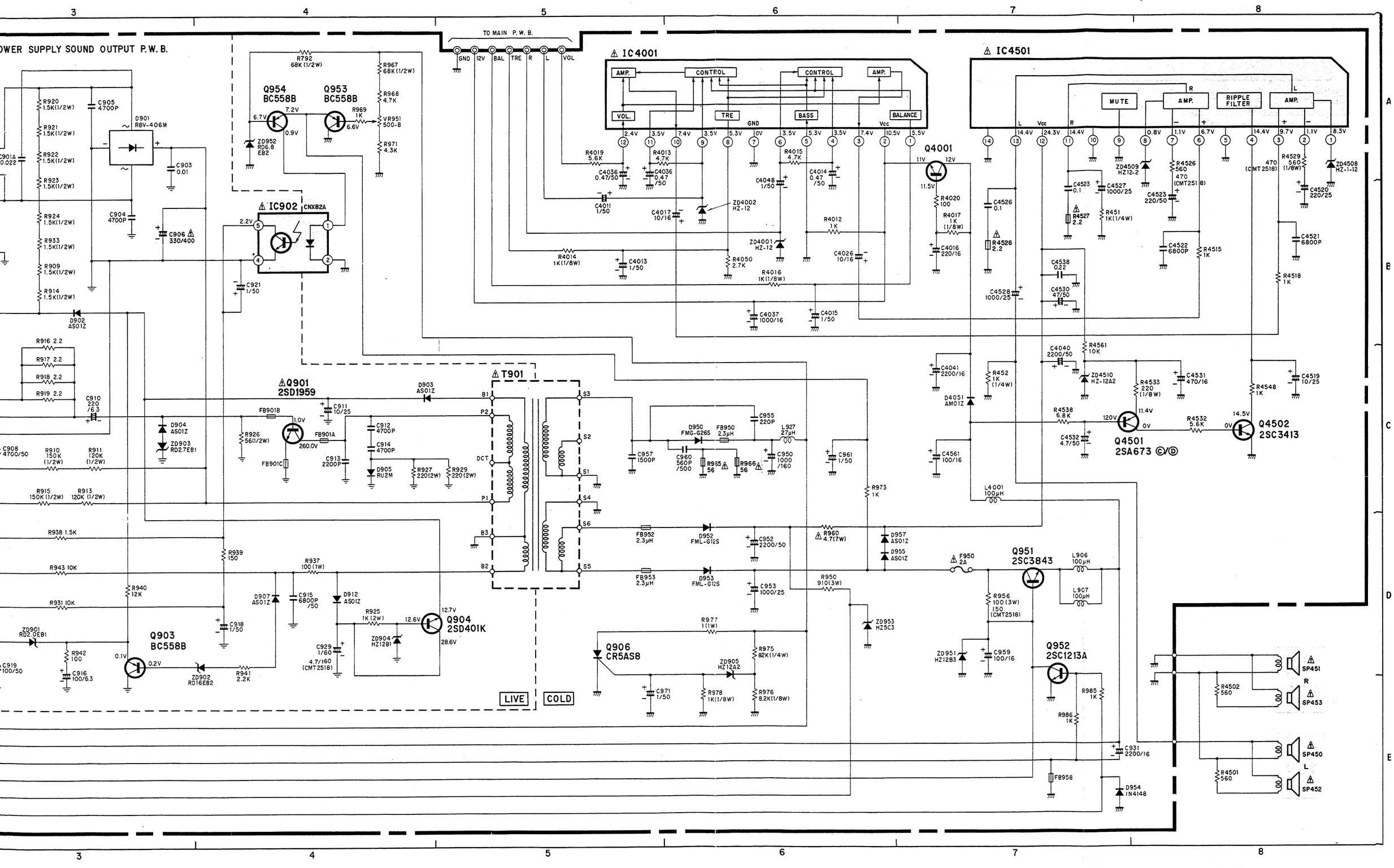
MAIN P.W.B. 2/2

IC1305 LA7016 · IC1304 LA7018 · IC502 LA7016 · IC1302 LA7016 · IC3501 MS1386L · IC1303 LA7016 · IC501 HA51339SP-3 · IC3201 HA11559NT · IC7000 A7950

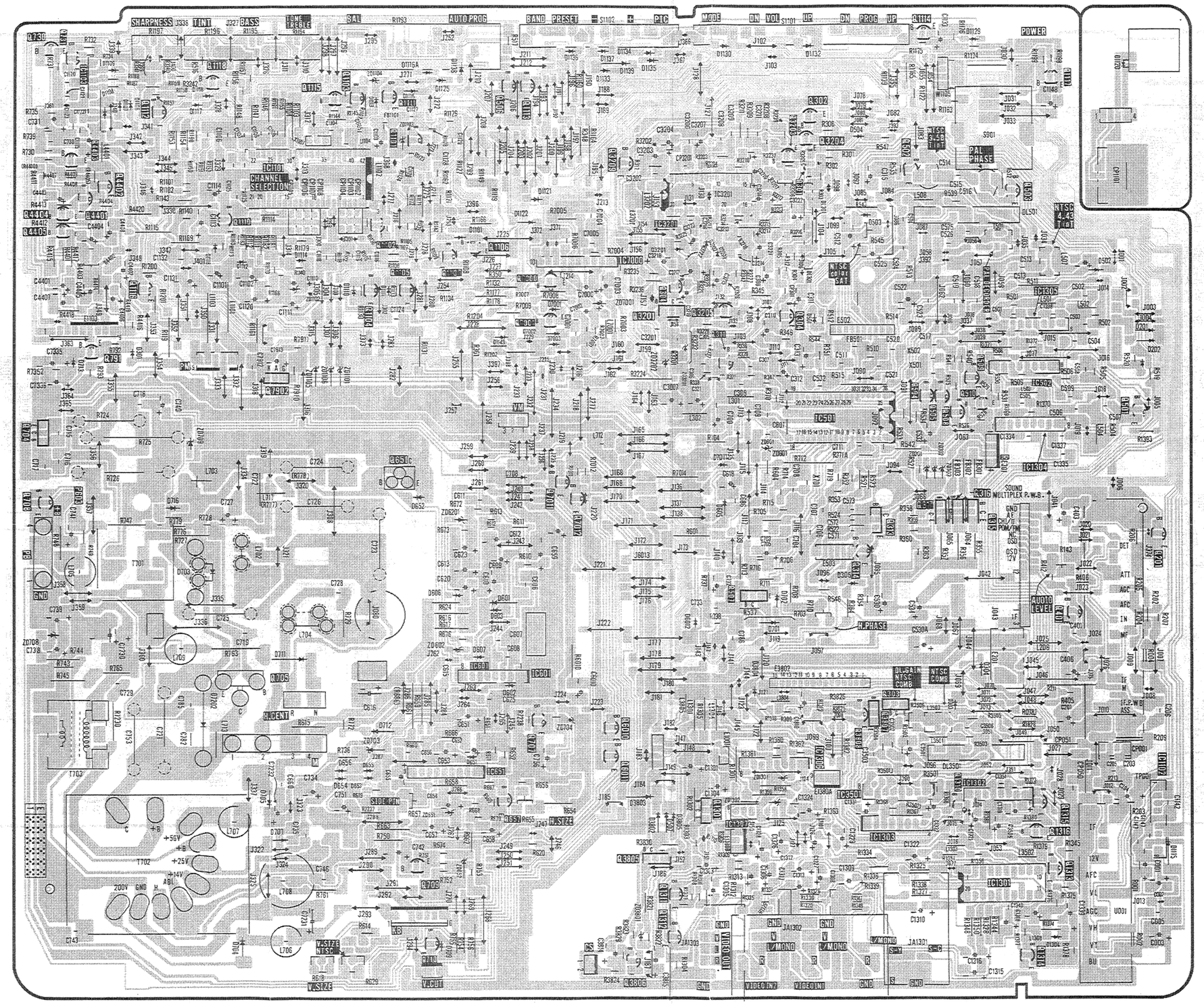
Q501 2SC3401 · Q502 2SC3401 · Q503 2SC3413 · Q504 2SC3401 · Q505 2SC3401 · Q506 2SC3401 · Q507 2SC3413 · Q508 2SC3413 · Q509 2SC3413 · Q6010 DTC114ES · Q1113 DTC124ES · Q1116 2SC3413 · Q1310 2SC3401 · Q1313 2SC3413 · Q1314 2SC673 · Q1315 2SC3413 · Q1316 2SC1314 · Q301 2SC3413 · Q302 2SC3413 · Q303 2SC3401 · Q304 2SC3401 · Q311 2SC458 · Q313 2SA673 · Q314 2SA673 · Q315 2SA673 · Q3201 2SD882 (Q/P) · Q3202 2SC3413 (C/D) · Q3203 2SC3413 (C/D) · Q3204 2SC3413 (C/D) · Q3205 2SC3413 · Q730 2SC3413 (C/D) · Q731 2SC3413 (C/D) · Q7000 2SC458 · Q7001 DTC446S

S I · DET OUT · V1/V2 S SW17 · RF I · H. BLK · V. BLK · COLOR · 110V · FORCED SECAM · S-C · M I · OSD POS SW · NTSC 4.43 · NTSC · NTSC · +12V · FORCED M · CONTRAST · AV · RF I · NTSC 4.43 I

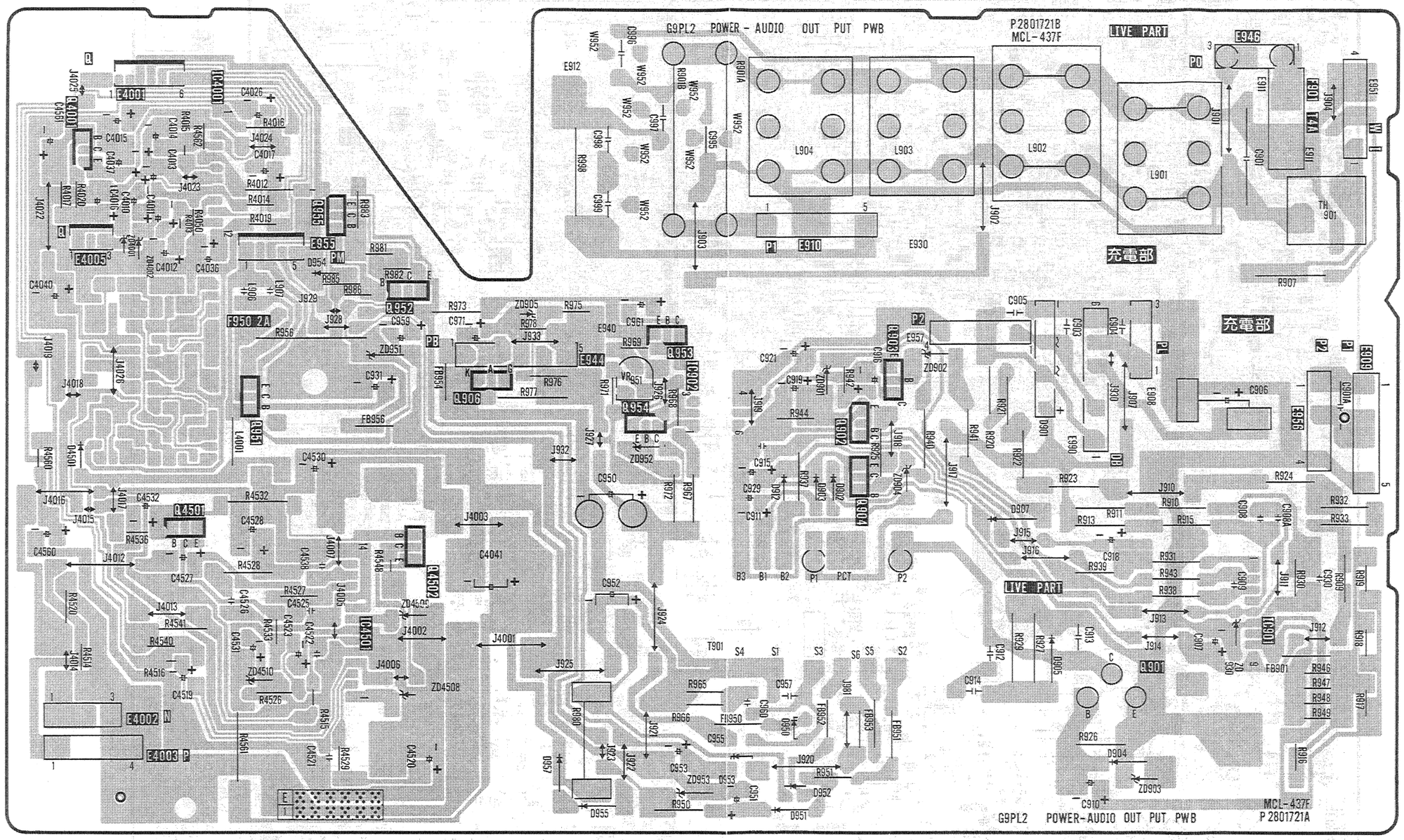
POWER SUPPLY SOUND OUTPUT CIRCUIT DIAGRAM



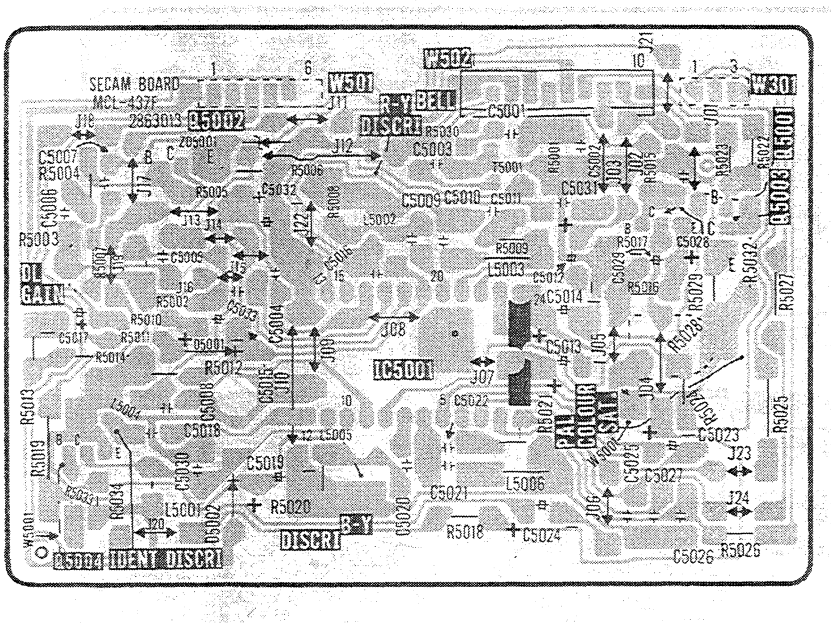
MAIN P. W. BOARD



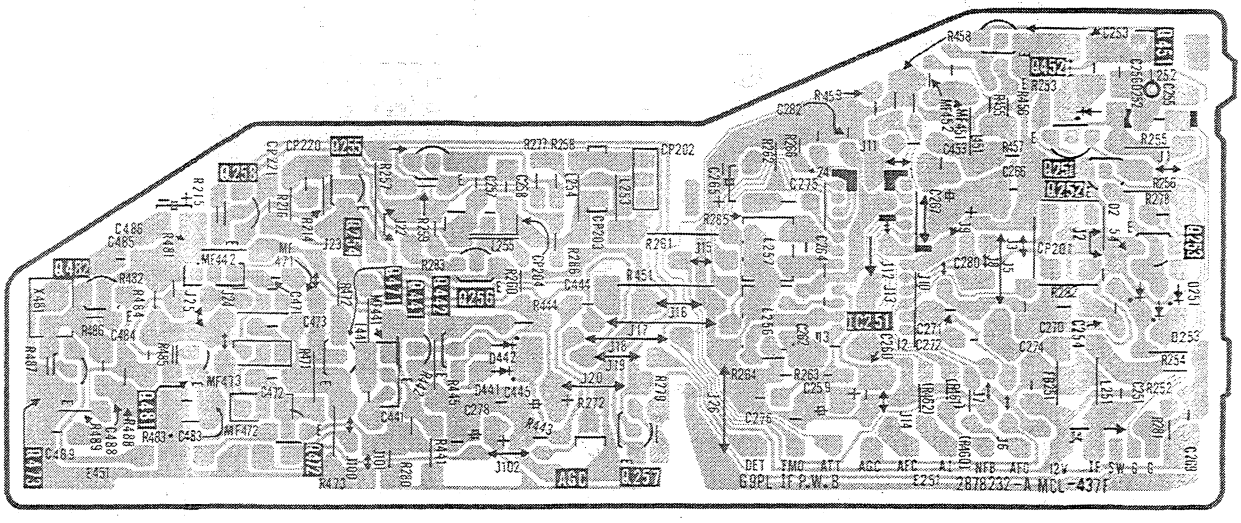
POWER SUPPLY SOUND OUTPUT P. W. BOARD



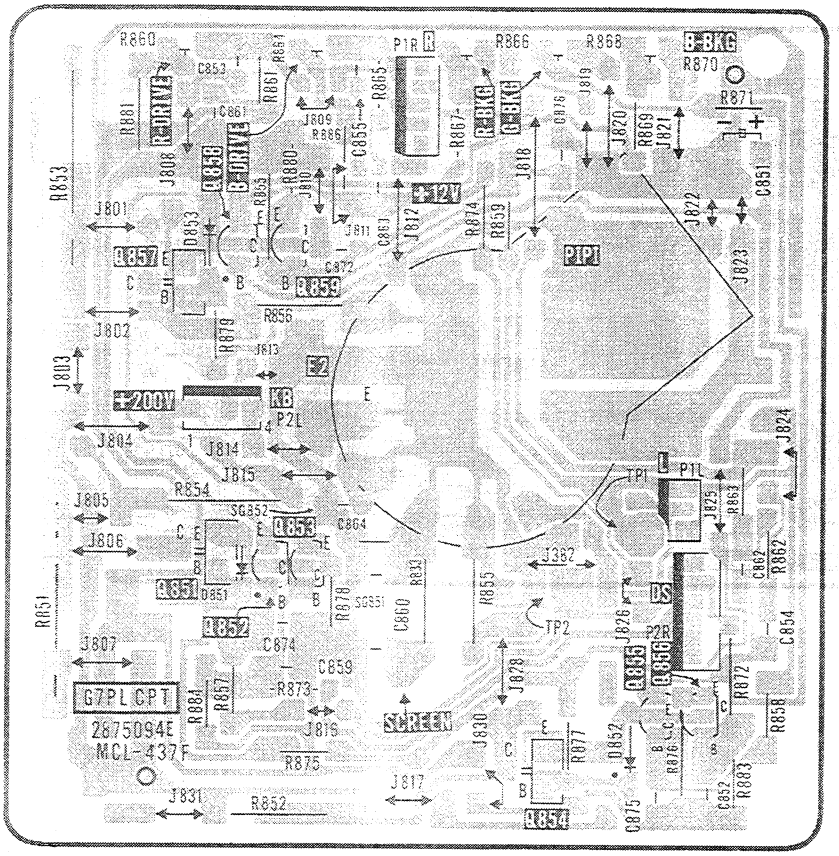
SECAM P. W. BOARD



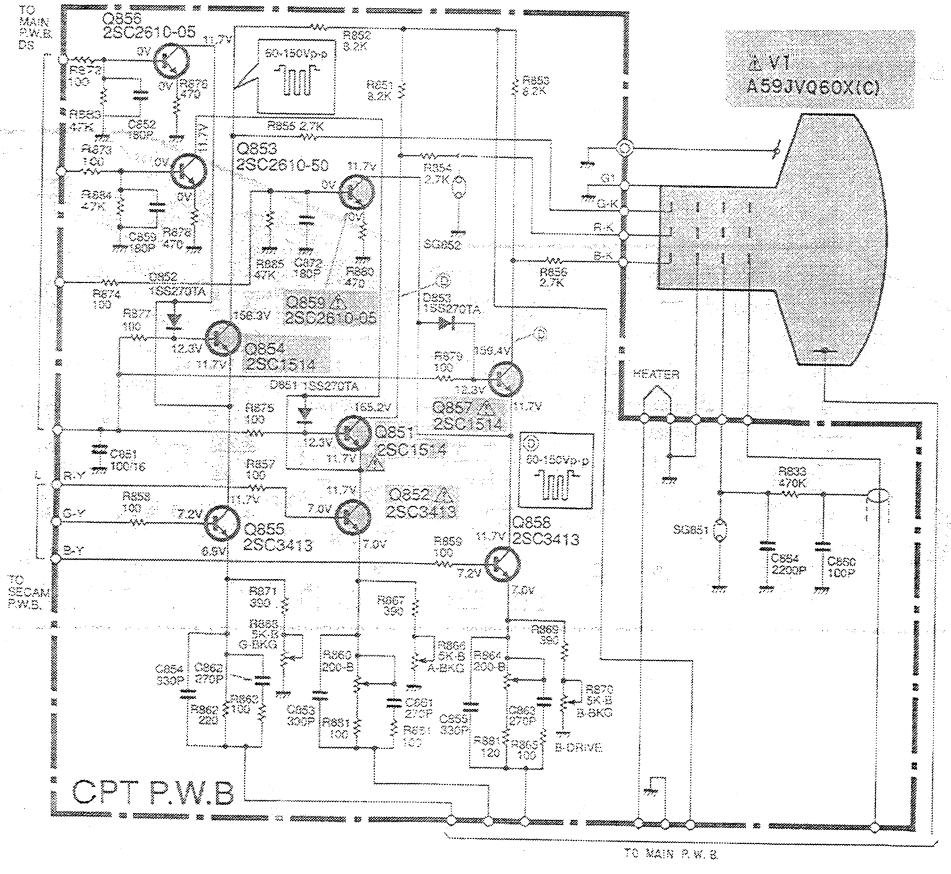
IF P. W. BOARD



CPT P. W. BOARD



CPT CIRCUIT DIAGRAM



REPLACEMENT PARTS LIST

ABBREVIATIONS: Capacitors.....CD: Ceramic disk, PF: Polyester film, EL: Electrolytic, PP: Polypropylene, PR: Paper, TA: Tantalum, TM: Trimmer.
Resistors..... CF: Carbon film, CC: Carbon composition, MF: Metal oxide film, VR: Variable resistor, WW: Wire would, FR: Fuse resistor, MG: Metal glazed.
Semiconductor...TR: Transistor, DI: Diode, ZD: Zener diode, VA: Varistor, TH: Thermistor, IC: IC.

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
CAPACITORS		
C001	0800023	EL 22MF 16V
C002	0800023	EL 22MF 16V
C003	0800023	EL 22MF 16V
C005	0880018	PF 0.22MF +–10% 50V
C1101	0800049	EL 100MF 16V
C1102	0800049	EL 100MF 16V
C1103	0800072	EL 470MF 6.3V
C1104	0246458	CD 56PF +–5% 50V
C1105	0248668	CD 22PF +–5% 50V
C1106	0248684	CD 100PF +–5% 50V
C1107	0248684	CD 100PF +–5% 50V
C1108	0248684	CD 100PF +–5% 50V
C1109	0248684	CD 100PF +–5% 50V
C1110	0800015	EL 10MF 16V
C1111	0800015	EL 10MF 16V
C1112	0800015	EL 10MF 16V
C1113	0800003	EL 1MF 50V
C1114	0800049	EL 100MF 16V (2918)
C1115	0800003	EL 1MF 50V
C1120	0244171	CD 0.01MF +80–20% 50V
C1121	0244171	CD 0.01MF +80–20% 50V
C1122	0244171	CD 0.01MF +80–20% 50V
C1123	0244171	CD 0.01MF +80–20% 50V
C1124	0880036	PF 2700PF +–10% 50V
C1125	0249093	CD 470PF +–5% 50V
C1126	0980035	CD 100PF +–10% 50V
C1127	0248694	CD 270PF +–5% 50V
C1128	0274775	PF 0.1MF +–10% 50V
C1129	0274775	PF 0.1MF +–10% 50V
C1131	0800047	EL 100MF 6.3V
C1132	0248694	CD 270PF +–5% 50V
C1133	0800023	EL 22MF 16V
C1142	0244171	CD 0.01MF +80–20% 50V
C1143	0244171	CD 0.01MF +80–20% 50V
C1147	0244171	CD 0.01MF +80–20% 50V
C1148	0800047	EL 100MF 6.3V
C1149	0800003	EL 1MF 50V (2718/2918)
C1301	0800049	EL 100MF 16V
C1303	0800057	EL 220MF 10V
C1304	0800082	EL 1000MF 16V
C1305	0800015	EL 10MF 16V
C1306	0800015	EL 10MF 16V
C1308	0800015	EL 10MF 16V
C1309	0800015	EL 10MF 16V
C1310	0800015	EL 10MF 16V
C1312	0800015	EL 10MF 16V
C1313	0800015	EL 10MF 16V
C1315	0800015	EL 10MF 16V
C1316	0800015	EL 10MF 16V
C1317	0800015	EL 10MF 16V
C1318	0800015	EL 10MF 16V
C1319	0800015	EL 10MF 16V
C1321	0252396	EL 10MF 16V
C1322	0800049	EL 100MF 16V
C1324	0800049	EL 100MF 16V
C1326	0252396	EL 10MF 16V
C1327	0800015	EL 10MF 16V
C1328	0252396	EL 10MF 16V
C1329	0800015	EL 10MF 16V
C1331	0252396	EL 10MF 16V
C1332	0800015	EL 10MF 16V
C1334	0274763	PF 0.01MF +–10% 50V
C1335	0274763	PF 0.01MF +–10% 50V
C1337	0274763	PF 0.01MF +–10% 50V
C1338	0274763	PF 0.01MF +–10% 50V
C1339	0252420	EL 4.7MF 50V
C1340	0800016	EL 10MF 25V
C1351	0274767	PF 0.022MF +–10% 50V
C201	0800087	EL 2200MF 16V
C203	0244103	CD 1500PF +–10% 50V
C204	0800015	EL 10MF 16V
C205	0274751	PF 1000PF +–10% 50V
C206	0274751	PF 1000PF +–10% 50V
C251	0248640	CD 10PF +–0.25% 50V
C253	0274763	PF 0.01MF +–10% 50V
C254	0274763	PF 0.01MF +–10% 50V
C255	0246420	CD 10PF +–0.25% 50V
C256	0246464	CD 100PF +–5% 50V
C257	0274763	PF 0.01MF +–10% 50V
C258	0274763	PF 0.01MF +–10% 50V
C259	0800001	EL 0.47MF 50V
C260	0274763	PF 0.01MF +–10% 50V
C262	0246446	CD 18PF +–5% 50V
C264	0246448	CD 22PF +–5% 50V
C265	0800001	EL 0.47MF 50V
C266	0274751	PF 1000PF +–10% 50V

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C267	0800049	EL 100MF 16V	C4009	0800082	EL 1000MF 16V
C269	0274763	PF 0.01MF +–10% 50V	C401	0274763	PF 0.01MF +–10% 50V (2718/2918)
C270	0274763	PF 0.01MF +–10% 50V	C4010	0252396	EL 10MF 16V
C271	0274763	PF 0.01MF +–10% 50V	C4011	0252396	EL 10MF 16V
C272	0880017	PF 0.15MF +–10% 50V	C4012	0800001	EL 0.47MF 50V
C274	0248638	CD 8PF +–0.25PF 50V	C4013	0253082	EL 1MF 50V
C275	0248638	CD 8PF +–0.25PF 50V	C4014	0800001	EL 0.47MF 50V
C276	0880016	PF 0.1MF +–10% 50V	C4015	0253082	EL 1MF 50V
C278	0800015	EL 10MF 16V	C4016	0800058	EL 220MF 16V
C280	0248638	CD 8PF +–0.25PF 50V	C4017	0253066	EL 10MF 25V
C282	0248638	CD 8PF +–0.25PF 50V	C4026	0800015	EL 10MF 16V
C305	0274763	PF 0.01MF +–10% 50V	C403	0800015	EL 10MF 16V
C306	0248668	CD 22PF +–5% 50V	C4036	0800001	EL 0.47MF 50V
C307	0274763	PF 0.01MF +–10% 50V	C4037	0800082	EL 1000MF 16V
C308	0800016	EL 10MF 25V	C4040	0800087	EL 2200MF 16V
C309	0274763	PF 0.01MF +–10% 50V	C4041	0252987	EL 2.2MF 50V
C310	0800003	EL 1MF 50V	C405	0244136	CD 270PF +–10% 50V
C311	0800041	EL 47MF 16V	C406	0800015	EL 10MF 16V
C312	0800016	EL 10MF 25V	C4401	0800015	EL 10MF 16V (2918)
C313	0800005	EL 2.2MF 50V	C4402	0800015	EL 10MF 16V (2918)
C315	0800087	EL 2200MF 16V	C4403	0800009	EL 4.7MF 25V (2918)
C316	0800049	EL 100MF 16V	C4004	0800009	EL 4.7MF 25V (2918)
C3201	0800015	EL 10MF 16V	C4405	0800041	EL 47MF 16V (2918)
C3202	0800049	EL 100MF 16V	C4406	0800015	EL 10MF 16V (2918)
C3203	0800049	EL 100MF 16V	C4407	0800015	EL 10MF 16V (2918)
C3204	0880009	PF 0.01MF +–10% 50V	C4408	0274773	PF 0.068MF +–10% 50V (2918)
C3205	0880009	PF 0.01MF +–10% 50V	C441	0248672	CD 33PF +–5% 50V
C3206	0890062	CD 12PF +–5% 50V	C444	0274763	PF 0.01MF +–10% 50V
C3207	0800003	EL 1MF 50V	C445	0800023	EL 22MF 16V
C3208	0880009	PF 0.01MF +–10% 50V	C448	0257048	EL 2.2MF 25V
C3209	0880009	PF 0.01MF +–10% 50V	C449	0257048	EL 2.2MF 25V
C321	0800049	EL 100MF 16V	C4519	0800016	EL 10MF 25V
C3210	0252396	EL 10MF 16V	C452	0800009	EL 4.7MF 25V
C3211	0880009	PF 0.01MF +–10% 50V	C4520	0800059	EL 220MF 25V
C3212	0800003	EL 1MF 50V	C4521	0274761	PF 6800PF +–10% 50V
C3213	0890084	CD 560PF +–10% 50V	C4522	0274761	PF 6800PF +–10% 50V
C3214	0880003	PF 1000PF +–10% 50V	C4523	0800059	EL 220MF 25V
C3215	0800041	EL 47MF 16V	C4525	0274775	PF 0.1MF +–10% 50V
C3216	0800015	EL 10MF 16V	C4526	0880016	PF 0.1MF +–10% 50V
C3217	0800015	EL 10MF 16V	C4527	0800083	EL 1000MF 25V
C3218	0800015	EL 10MF 16V	C4528	0800083	EL 1000MF 25V
C3219	0800003	EL 1MF 50V	C453	0251087	EL 1MF 25V
C3220	0880003	PF 1000PF +–10% 50V (2518)	C453	0274763	PF 0.01MF +–10% 50V
C3221	0252417	EL 1MF 50V	C4530	0800044	EL 47MF 50V
C3222	0800003	EL 1MF 50V	C4531	0800074	EL 470MF 16V
C3223	0248674	CD 39PF +–5% 50V	C4532	0800012	EL 4.7MF 50V
C3501	0800015	EL 10MF 16V	C4538	0880018	PF 0.22MF +–10% 50V
C3502	0246454	CD 39PF +–5% 50V	C454	0880057	PF 0.1MF +–10% 50V
C3503	0274763	PF 0.01MF +–10% 50V	C4560	0800003	EL 1MF 50V (2518)
C3505	0800049	EL 100MF 16V	C4561	0800049	EL 100MF 16V
C3506	0248688	CD 150PF +–5% 50V	C458	0800041	EL 47MF 16V
C3810	0800049	EL 100MF 16V	C459	0800041	EL 47MF 16V

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
C462	0800009	EL 4.7MF 25V
C463	0251087	EL 1MF 25V
C464	0880057	PF 0.1MF +–10% 50V
C471	0890066	CD 27PF +–5% 50V
C472	0890066	CD 27PF +–5% 50V
C473	0890066	CD 27PF +–5% 50V
C483	0880009	PF 0.01MF +–10% 50V
C484	0890056	CD 6PF +–0.5% 50V
C485	0880016	PF 0.1MF +–10% 50V
C486	0800015	EL 10MF 16V
C488	0880003	PF 1000PF +–10% 50V
C489	0248688	CD 150PF +–5% 50V
C5001	0248678	CD 56PF +–5% 50V
C5002	0248107	CD 220PF +–5% 50V
C5003	0274763	PF 0.01MF +–10% 50V
C5005	0274763	PF 0.01MF +–10% 50V
C5006	0274763	PF 0.01MF +–10% 50V
C5007	0274763	PF 0.01MF +–10% 50V
C5008	0274763	PF 0.01MF +–10% 50V
C5009	0274763	PF 0.01MF +–10% 50V
C501	0248680	CD 68PF +–5% 50V
C5010	0248666	CD 18PF +–5% 50V
C5011	0248686	CD 120PF +–5% 50V
C5012	0800003	EL 1MF 50V
C5013	0800003	EL 1MF 50V
C5014	0800009	EL 4.7MF 25V
C5015	0800003	EL 1MF 50V
C5016	0248684	CD 100PF +–5% 50V
C5017	0276833	PF 0.068MF +–5% 50V (2518)
C5018	0244139	CD 1000PF +–10% 50V
C5019	0800007	EL 3.3MF 50V (2518)
C5019	0800001	EL 0.47MF 50V (2718/2918)
C502	0248678	CD 56PF +–5% 50V
C5020	0274763	PF 0.01MF +–10% 50V
C5021	0248668	CD 22PF +–5% 50V
C5022	0248694	CD 270PF +–5% 50V
C5023	0800003	EL 1MF 50V
C5024	0800003	EL 1MF 50V
C5025	0244113	CD 330PF +–10% 50V
C5026	0244113	CD 330PF +–10% 50V
C5027	0244113	CD 330PF +–10% 50V
C5028	0244113	CD 330PF +–10% 50V
C5029	0800041	EL 47MF 16V
C503	0246458	CD 56PF +–5% 50V
C5030	0244117	CD 680PF +–10% 50V
C5031	0248678	CD 56PF +–5% 50V
C5032	0800032	EL 33MF 16V
C5033	0248672	CD 33PF +–5% 50V
C5034	0244116	CD 180PF +–10% 50V
C5035	0277025	PF 0.1MF +–10% 50V
C504	0274763	PF 0.01MF +–10% 50V
C505	0248684	CD 100PF +–5% 50V

SYMBOL NO.	PART NO.	DESCRIPTION
C506	0248676	CD 47PF +–5% 50V
C507	0248692	CD 220PF +–5% 50V
C508	0244116	CD 180PF +–10% 50V
C509	0274763	PF 0.01MF +–10% 50V
C511	0274763	PF 0.01MF +–10% 50V
C512	0800003	EL 1MF 50V
C513	0274763	PF 0.01MF +–10% 50V
C514	2784695	TM 50PF
C515	0248670	CD 27PF +–5% 50V
C516	2784695	TM 50PF
C517	0274763	PF 0.01MF +–10% 50V
C518	0274775	PF 0.1MF +–10% 50V
C519	0251073	EL 2.2MF 16V
C520	0274763	PF 0.01MF +–10% 50V
C521	0274667	PF 0.022MF +–5% 50V
C522	0800003	EL 1MF 50V
C523	0274667	PF 0.022MF +–5% 50V
C524	0274763	PF 0.01MF +–10% 50V
C525	0274763	PF 0.01MF +–10% 50V
C526	0248639	CD 9PF +–0.25PF 50V (2518)
C526	0248639F	CD 9PF +–2% 50V (2718/2918)
C530	0800082	EL 1000MF 16V
C530A	0800003	EL 1MF 50V
C532	0276341	PF 0.1MF +–10% 50V
C533	0800082	EL 1000MF 16V
C534	0252417	EL 1MF 50V
C574	0248682	CD 82PF +–5% 50V
C601	0274669	PF 0.033MF +–5% 50V (2518)
C601	0276235	PF 3300PF +–5% 50V (2718/2918)
C6010	0800003	EL 1MF 50V
C606	0880044	PF 0.01MF +–10% 50V (2518)
C606	0274763	PF 0.01MF +–10% 50V (2718/2918)
C607	0890015	CD 33PF +–20% 50V
C608	0890032	CD 560PF +–10% 50V
C609	0800007	EL 3.3MF 50V
C610	0800068	EL 330MF 35V
C611	0880057	PF 0.1MF +–10% 50V (2518)
C611	0274775	PF 0.1MF +–10% 50V(2718/2918)
C612	0800003	EL 1MF 50V
C613	0800003	EL 1MF 50V
C615	0880057	PF 0.1MF +–10% 50V 2518)
C615	0274775	PF 0.1MF +–10% 50V (2718/2918)
C616	0252969	EL 2200MF 25V
C618	0292716	TA 1MF +–10% 20V
C620	0800032	EL 33MF 16V
C623	0800049	EL 100MF 16V
C625	0880062	PF 0.22MF +–10% 50V
C651	0800023	EL 22MF 16V
C652	0251087	EL 1MF 25V
C653	0251087	EL 1MF 25V
C654	0800041	EL 47MF 16V
C655	0252959	EL 4.7MF 25V

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C656	0244109	CD 4700PF +–10% 50V	C734	0800076	EL 470MF 31.5V
C657	0252416	EL 0.47MF 50V	C735	0243510	CD 560PF +–10% 500V
C658	0800015	EL 10MF 16V (2518/2718)	C738	0800015	EL 10MF 16V
C659	0253943	EL 0.33MF 50V (2518/2718)	C739	0252959	EL 4.7MF 25V
C659	0880062	PF 0.22MF +–10% 50V (2918)	C740	0800023	EL 22MF 16V
C660	0279849	PF 0.015MF +–10% 100V	C741	0800026	EL 22MF 50V (2518)
C686	0274755	PF 2200PF +–10% 50V	C741	0800042	EL 47MF 25V (2718/2918)
C700	0800058	EL 220MF 16V	C742	0800003	EL 1MF 50V
C7000	0800049	EL 100MF 16V	C743	0880048	PF 0.022MF +–10% 50V (2518)
C7001	0274753	PF 1500PF +–10% 50V	C743	0274767	PF 0.022MF +–10% 50V (2718/2918)
C7002	0800012	EL 4.7MF 50V	C746	0880057	PF 0.1MF +–10% 50V (2518)
C7003	0800003	EL 1MF 50V	C746	0274775	PF 0.1MF +–10% 50V (2718/2918)
C7004	0274767	PF 0.022MF +–10% 50V	C751	0800018	EL 10MF 50V
C7005	0274673	PF 0.068MF +–5% 50V (2518)	C753	0299668	PP 3600PF +–5% 1600V
C7005	0276239	PF 0.068MF 50V +–5% (2718/2918)	C756	0800003	EL 1MF 50V
C703	0274767	PF 0.022MF +–10% 50V	C782	0249491	CD 470PF +–10% 2.5KV
C704	0274765	PF 0.015MF +–10% 50V	C785	0244507	CD 3300PF +–10% 500V
C705	0800005	EL 2.2MF 50V	C786	0247838	CD 22PF +–5% 500V
C706	0274757	PF 3300PF +–10% 50V	C7912	0244141	CD 0.01MF +–10% 50V
C707	0274655	PF 2200PF +–5% 50V (2518)	C7913	0800015	EL 10MF 16V
C707	0276221	PF 2200PF +–5% 50V (2718/2918)	C851	0800049	EL 100MF 16V
C708	0244104	CD 1800PF +–10% 50V	C852	0244116	CD 180PF +–10% 50V
C709	0244116	CD 180PF +–10% 50V	C853	0244229	CD 150PF +–10% 50V (2518)
C711	0244118	CD 470PF +–10% 50V	C853	0248686	CD 120PF +–5% 50V (2718/2918)
C715	0247850	CD 68PF +–5% 500V	C854	0244229	CD 150PF +–10% 50V (2518)
⚠ C716	0244504	CD 1800PF +–10% 500V	C854	0248686	CD 120PF +–5% 50V (2718/2918)
⚠ C717	0244501	CD 1000PF +–10% 500V	C855	0244229	CD 150PF +–10% 50V (2518)
⚠ C718	0880057	PF 0.1MF +–10% 50V (2518)	C855	0248686	CD 120PF +–5% 50V (2718/2918)
⚠ C718	0274775	PF 0,1MF +–10% 50V (2718/2918)	C859	0244116	CD 180PF +–10% 50V
⚠ C719	0244113	CD 330PF +–10% 50V	C860	0243425	CD 100PF +–10% 1.6KV
C721	0299940F	PF 0.015MF +–5% 1.6KV	C861	0248694	CD 270PF +–5% 50V
C722	0299984	PP 0.022MF +–5% 630V	C862	0248694	CD 270PF +–5% 50V
C723	0299931	PP 0.27MF +–10% 200V (2518/2918)			
C723	0299932	PP 0.33MF +–10% 200V (2718)	C863	0248694	CD 270PF +–5% 50V
C7230	0251771	EL 220MF 160V (2518)	C864	0244215	CD 2200PF +–10% 2KV
C7230	0259154F	EL 220MF 160V (2718/2918)	C872	0244116	CD 180PF +–10% 50V
C7231	0253974N	EL 33MF 250V	C873	0243509	CD 470PF +–10% 500V
C7232	0800021	EL 10MF 100V	⚠ C901	0279698	PF 0.22MF +–20% 250V
C724	0299930	PP 0.22MF +–10% 200V (2518/2718)	C901A	0279747	PF 0.022MF +–20% 100V
C724	0299932	PP 0.33MF +–10% 200V (2918)	C903	0248594F	CD 0.01MF +80–20% 250V
C725	0299933	PP 0.39MF +–10% 200V	⚠ C904	0248593F	CD 4700PF +80–20% 250V
C726	0299932	PP 0.33MF +–10% 200V (2518/2718)	⚠ C905	0248593F	CD 4700PF +80–20% 250V
C726	0299931	PP 0.27MF +–10% 200V (2918)	⚠ C906	0251883	EL 220MF 400V (2518)
C727	0259472	EL 6.8MF 25V	⚠ C906	0259097	EL 330MF 400V (2718/2918)
C728	0890087	CD 1000PF +–10% 50V	⚠ C907	0258114	EL 330MF 50V
C729	0244503	CD 1500PF +–10% 50V	C908	0274659	PF 4700PF +–5% 50V
C730	0244139	CD 1000PF +–10% 50V	C908A	0274651	PF 1000PF +–5% 50V
C731	0800041	EL 47MF 16V	C909	0248694	CD 270PF +–5% 50V
C732	0800012	EL 4.7MF 50V	C910	0255019F	EL 220MF 63V
C733	0244104	CD 1800PF +–10% 50V	C911	0800016	EL 10MF 25V
C7335	0800007	EL 3.3MF 50V	C912	0249159	CD 4700PF +100–0% 125V
C7336	0800015	EL 10MF 16V	C913	0244215	CD 2200PF +–10% 2KV

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
C914	0249159	CD 4700PF +100–0% 125V
C915	0274661	PF 6800PF +–5% 50V
C916	0800047	EL 100MF 6.3V
C918	0800003	EL 1MF 50V
C919	0800053	EL 100MF 50V
C921	0800003	EL 1MF 50V
C929	0253952R	EL 1MF 160V
C930	0276227	PF 6800PF +–5% 50V
C931	0800087	EL 2200MF 16V
C950	0251704	EL 470MF 160V
C951	0800081	EL 1000MF 10V (2518)
C952	0252987	EL 2.2MF 50V
C953	0800083	EL 1000MF 25V
C955	0245603	CD 220PF +–10% 1KV
C957	0244213	CD 1500PF +–10% 2KV
C959	0800049	EL 100MF 16V
C960	0245606	CD 560PF +–10% 1KV
C961	0800003	EL 1MF 50V
C971	0800003	EL 1MF 50V
C995	0249391	CD 1000PF +–10% (2518)
C995	0249498	CD 1000PF 4000V (2718/2918)
C996	0249391	CD 1000PF +–10% (2518)
C996	0249498	CD 1000PF 4000V (2718/2918)
C997	0249391	CD 1000PF +–10% (2518)
C997	0249498	CD 1000PF 4000V (2718/2918)
C998	0249392	CD 2200PF +–10% (2518)
C998	0247974	CD 2200PF +80–20% (2718/2918)
C999	0249392	CD 2200PF +–10% (2518)
C999	0247974	CD 2200PF +80–20% (2718/2918)

RESISTORS

R001	0700048	CF 3.9K OHM +–5% 1/16W
R002	0700048	CF 3.9K OHM +–5% 1/16W
R004	0700058	CF 22K OHM +–5% 1/16W
R006	0100065	CF 1K OHM +–5% 1/8W (2718/2918)
R078J	0100041	CF 100 OHM +–5% 1/8W
R1101	0700061	CF 33K OHM +–5% 1/16W
R1102	0700058	CF 22K OHM +–5% 1/16W
R1104	0700058	CF 22K OHM +–5% 1/16W
R1104	0700051	CF 5.6K OHM +–5% 1/16W (2718/2918)
R1105	0700061	CF 33K OHM +–5% 1/16W
R1106	0700063	CF 47K OHM +–5% 1/16W
R1107	0700041	CF 1K OHM +–5% 1/16W
R1108	0700054	CF 10K OHM +–5% 1/16W
R1109	0700058	CF 22K OHM +–5% 1/16W
R1110	0700054	CF 10K OHM +–5% 1/16W
R1111	0700054	CF 10K OHM +–5% 1/16W
R1112	0700054	CF 10K OHM +–5% 1/16W
R1113	0700051	CF 5.6K OHM +–5% 1/16W

SYMBOL NO.	PART NO.	DESCRIPTION
R1114	0700063	CF 47K OHM +–5% 1/16W (2518/2918)
R1115	0700054	CF 10K OHM +–5% 1/16W
R1116	0700031	CF 180 OHM +–5% 1/16W
R1117	0700031	CF 180 OHM +–5% 1/16W
R1118	0700031	CF 180 OHM +–5% 1/16W
R1119	0110175	MF 18K OHM +–5% 1W
R1121	0700058	CF 22K OHM +–5% 1/16W
R1122	0700049	CF 4.7K OHM +–5% 1/16W
R1123	0700054	CF 10KOHM +–5% 1/16W
R1124	0700056	CF 15K OHM +–5% 1/16W
R1125	0700041	CF 1K OHM +–5% 1/16W
R1127	0110273	MF 15K OHM +–5% 2W
R1128	0700057	CF 18K OHM +–5% 1/16W
R1129	0700057	CF 18K OHM +–5% 1/16W
R1130	0700046	CF 2.7K OHM +–5% 1/16W
R1131	0700058	CF 22K OHM +–5% 1/16W
R1132	0700045	CF 2.2K OHM +–5% 1/16W
R1133	0700041	CF 1K OHM +–5% 1/16W
R1134	0700054	CF 10K OHM +–5% 1/16W
R1135	0700054	CF 10K OHM +–5% 1/16W
R1136	0700054	CF 10K OHM +–5% 1/16W
R1139	0700041	CF 1K OHM +–5% 1/16W
R1140	0100133	CF 680K OHM +–5% 1/8W
R1141	0700027	CF 100 OHM +–5% 1/16W
R1142	0700041	CF 1K OHM +–5% 1/16W
R1143	0700067	CF 100K OHM +–5% 1/16W
R1144	0700044	CF 1.8K OHM +–5% 1/16W
R1145	0700046	CF 2.7K OHM +–5% 1/16W
R1146	0700041	CF 1K OHM +–5% 1/16W
R1147	0700041	CF 1K OHM +–5% 1/16W
R1148	0700041	CF 1K OHM +–5% 1/16W
R1149	0700058	CF 22K OHM +–5% 1/16W
R1150	0700058	CF 22K OHM +–5% 1/16W
R1151	0700058	CF 22K OHM +–5% 1/16W
R1152	0700058	CF 22K OHM +–5% 1/16W
R1153	0700041	CF 1K OHM +–5% 1/16W
R1154	0700041	CF 1K OHM +–5% 1/16W
R1155	0700041	CF 1K OHM +–5% 1/16W
R1156	0700054	CF 10K OHM +–5% 1/16W
R1157	0700054	CF 10K OHM +–5% 1/16W
R1158	0700054	CF 10K OHM +–5% 1/16W
R1159	0700054	CF 10K OHM +–5% 1/16W
R1160	0700054	CF 10K OHM +–5% 1/16W
R1161	0100041	CF 100 OHM +–5% 1/8W
R1162	0700045	CF 2.2K OHM +–5% 1/16W
R1163	0700045	CF 2.2K OHM +–5% 1/16W
R1164	0700054	CF 10K OHM +–5% 1/16W
R1165	0700027	CF 100 OHM +–5% 1/16W
R1166	0700056	CF 15K OHM +–5% 1/16W
R1167	0700061	CF 33K OHM +–5% 1/16W
R1168	0700054	CF 10K OHM +–5% 1/16W
R1169	0700041	CF 1K OHM +–5% 1/16W

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R1170	0700062	CF 39K OHM +–5% 1/16W	R1330	0700063	CF 47K OHM +–5% 1/16W
R1171	0700058	CF 22K OHM +–5% 1/16W	R1334	0100041	CF 100 OHM +–5% 1/8W
R1172	0700058	CF 22K OHM +–5% 1/16W	R1335	0700063	CF 47K OHM +–5% 1/16W
R1174	0700058	CF 22K OHM +–5% 1/16W	R1336	0100041	CF 100 OHM +–5% 1/8W
R1175	0700054	CF 10K OHM +–5% 1/16W	R1337	0700063	CF 47K OHM +–5% 1/16W
R1176	0700067	CF 100K OHM +–5% 1/16W	R1338	0100041	CF 100 OHM +–5% 1/8W
R1177	0700054	CF 10K OHM +–5% 1/16W	R1339	0187038	CF 75 OHM +–5% 1/16W
R1178	0700054	CF 10K OHM +–5% 1/16W	R1344	0100041	CF 100 OHM +–5% 1/8W
R1179	0700054	CF 10K OHM +–5% 1/16W (2518)	R1345	0187038	CF 75 OHM +–5% 1/16W
R1179	0700052	CF 6.8K OHM +–5% 1/16W (2718/2918)	R1347	0700063	CF 47K OHM +–5% 1/16W
R1180	0700054	CF 10K OHM +–5% 1/16W	R1348	0100041	CF 100 OHM +–5% 1/8W
R1181	0700054	CF 10K OHM +–5% 1/16W	R1349	0700063	CF 47K OHM +–5% 1/16W
R1182	0700055	CF 12K OHM +–5% 1/16W (2518)	R1350	0100041	CF 100 OHM +–5% 1/8W
R1182	0700051	CF 5.6K OHM +–5% 1/16W (2718/2918)	R1356	0700067	CF 100K OHM +–5% 1/16W
R1183	0700056	CF 15K OHM +–5% 1/16W	R1357	0700067	CF 100K OHM +–5% 1/16W
R1184	0110175	MF 18K OHM +–5% 1W	R1358	0100041	CF 100 OHM +–5% 1/8W
R1187	0700045	CF 2.2K OHM +–5% 1/16W	R1359	0100041	CF 100 OHM +–5% 1/8W
R1188	0700045	CF 2.2K OHM +–5% 1/16W	R1360	0700065	CF 68K OHM +–5% 1/16W
R1190	0700041	CF 1K OHM +–5% 1/16W	R1361	0700061	CF 33K OHM +–5% 1/16W
R1191	0700058	CF 22K OHM +–5% 1/16W	R1362	0700065	CF 68K OHM +–5% 1/16W
R1193	0155722	VR 2K OHM-B	R1363	0700061	CF 33K OHM +–5% 1/16W
R1194	0155711	VR 2K OHM-B	R1366	0700051	CF 5.6K OHM +–5% 1/16W
R1195	0155711	VR 2K OHM-B (2718/2918)	R1367	0700065	CF 68K OHM +–5% 1/16W
R1196	0155711	VR 2K OHM-B	R1368	0700065	CF 68K OHM +–5% 1/16W
R1197	0155712	VR 20K OHM-B	R1369	0700065	CF 68K OHM +–5% 1/16W
R1198	0700041	CF 1K OHM +–5% 1/16W	R1370	0700061	CF 33K OHM +–5% 1/16W
R1199	0100089	CF 10K OHM +–5% 1/8W	R1371	0700065	CF 68K OHM +–5% 1/16W
R1200	0700047	CF 3.3K OHM +–5% 1/16W	R1372	0700061	CF 33K OHM +–5% 1/16W
R1201	0700049	CF 4.7K OHM +–5% 1/16W	R1373	0700032	CF 220 OHM +–5% 1/16W
R1202	0700054	CF 10K OHM +–5% 1/16W	R1374	0100059	CF 560 OHM +–5% 1/8W
R1204	0700041	CF 1K OHM +–5% 1/16W	R1375	0700042	CF 1.2K OHM +–5% 1/16W
R1301	0700027	CF 100 OHM +–5% 1/16W	R1376	0187062	CF 750 OHM +–5% 1/16W
R1302	0113733	CF 220 OHM +–5% 1/2W	R1377	0700037	CF 560 OHM +–5% 1/16W
R1303	0187038	CF 75 OHM +–5% 1/16W	R1378	0700057	CF 18K OHM +–5% 1/16W
R1304	0700054	CF 10K OHM +–5% 1/16W	R1379	0114147	CF 470 OHM +–5% 1/4W
R1305	0113731	CF 180 OHM +–5% 1/2W	R1380	0100057	CF 470 OHM +–5% 1/8W
R1306	0700027	CF 100 OHM +–5% 1/16W	R1381	0100057	CF 470 OHM +–5% 1/8W
R1307	0700041	CF 1K OHM +–5% 1/16W	R1382	0100051	CF 270 OHM +–5% 1/8W
R1308	0700041	CF 1K OHM +–5% 1/16W	R1393	0700041	CF 1K OHM +–5% 1/16W
R1309	0700063	CF 47K OHM +–5% 1/16W	R202	0700051	CF 5.6K OHM +–5% 1/16W
R1310	0700027	CF 100 OHM +–5% 1/16W	R203	0700056	CF 15K OHM +–5% 1/16W
R1311	0700041	CF 1K OHM +–5% 1/16W	R204	0700067	CF 100K OHM +–5% 1/16W
R1312	0700041	CF 1K OHM +–5% 1/16W	R205	0700064	CF 56K OHM +–5% 1/16W
R1313	0700063	CF 47K OHM +–5% 1/16W	R206	0700063	CF 47K OHM +–5% 1/16W
R1318	0700065	CF 68K OHM +–5% 1/16W	R207	0700067	CF 100K OHM+–5% 1/16W
R1319	0700061	CF 33K OHM +–5% 1/16W	R209	0113729	CF 150 OHM +–5% 1/2W
R1320	0187038	CF 75 OHM +–5% 1/16W	R211	0700051	CF 5.6K OHM +–5% 1/16W
R1325	0100041	CF 100 OHM +–5% 1/8W	R213	0100123	CF 270K OHM +–5% 1/8W
R1326	0700063	CF 47K OHM +–5% 1/16W	R214	0700028	CF 120 OHM +–5% 1/16W (2718/2918)
R1327	0100041	CF 100 OHM +–5% 1/8W	R215	0700064	CF 56K OHM +–5% 1/16W
R1328	0100041	CF 100 OHM +–5% 1/8W	R216	0700026	CF 82 OHM +–5% 1/16W
R1329	0187038	CF 75 OHM +–5% 1/16W	R252	0700041	CF 1K OHM +–5% 1/16W

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R253	0700041	CF 1K OHM +–5% 1/16W	R3219	0700049	CF 4.7K OHM +–5% 1/16W
R254	0700041	CF 1K OHM +–5% 1/16W	R3220	0100117	CF 150K OHM +–5% 1/8W
R255	0100059	CF 560 OHM +–5% 1/8W	R3221	0700051	CF 5.6K OHM +–5% 1/16W
R256	0100059	CF 560 OHM +–5% 1/8W	R3222	0700051	CF 5.6K OHM +–5% 1/16W
R257	0100053	CF 330 OHM +–5% 1/8W	R3224	0700058	CF 22K OHM +–5% 1/16W
R258	0700054	CF 10K OHM +–5% 1/16W	R3225	0700054	CF 10K OHM +–5% 1/16W
R259	0700063	CF 47K OHM +–5% 1/16W	R3226	0700054	CF 10K OHM +–5% 1/16W
R260	0700054	CF 10K OHM +–5% 1/16W	R3227	0700027	CF 100 OHM +–5% 1/16W
R261	0700031	CF 180 OHM +–5% 1/16W	R3228	0700041	CF 1K OHM +–5% 1/16W
R262	0700041	CF 1K OHM +–5% 1/16W	R3229	0700027	CF 100 OHM +–5% 1/16W
R263	0100131	CF 560K OHM +–5% 1/8W	R3232	01195051	FR 2.2 OHM +–5% 1/4W
R264	0700041	CF 1K OHM +–5% 1/16W	R3235	0700041	CF 1K OHM +–5% 1/16W
R265	0700029	CF 150 OHM +–5% 1/16W	R3236	0700036	CF 470 OHM +–5% 1/16W
R266	0700041	CF 1K OHM +–5% 1/16W	R3237	0700059	CF 27K OHM +–5% 1/16W
R272	0150158	VR 30K OHM-B RV-6	R3239	0700067	CF 100K OHM +–5% 1/16W
R277	0700063	CF 47K OHM +–5% 1/16W	R3240	0700047	CF 3.3K OHM +–5% 1/16W
R278	0700054	CF 10K OHM +–5% 1/16W	R3241	0700045	CF 2.2K OHM +–5% 1/16W
R279	0700027	CF 100 OHM +–5% 1/16W	R3242	0700051	CF 5.6K OHM +–5% 1/16W
R280	0700041	CF 1K OHM +–5% 1/16W	R336	0700063	CF 47K OHM +–5% 1/16W
R281	0700041	CF 1K OHM +–5% 1/16W	R337	0700056	CF 15K OHM +–5% 1/16W
R282	0700034	CF 330 OHM +–5% 1/16W	R338	0700049	CF 4.7K OHM +–5% 1/16W
R283	0700054	CF 10K OHM +–5% 1/16W	R339	0700053	CF 8.2K OHM +–5% 1/16W
R286	0700047	CF 3.3K OHM +–5% 1/16W	R345	0100127	CF 390K OHM +–5% 1/8W
R287	0100081	CF 4.7K OHM +–5% 1/8W	R346	0700049	CF 4.7K OHM +–5% 1/16W
R301	0700027	CF 100 OHM +–5% 1/16W	R347	0700052	CF 6.8K OHM +–5% 1/16W
R302	0700041	CF 1KOHM +–5% 1/16W	R350	0700061	CF 33K OHM +–5% 1/16W
R303	0700038	CF 680 OHM +–5% 1/16W	R3501	0700032	CF 220 OHM +–5% 1/16W
R304	0700038	CF 680 OHM +–5% 1/16W	R3501J	0100041	CF 100 OHM +–5% 1/8W
R305	0700029	CF 150 OHM +–5% 1/16W (2518)	R3502	0700035	CF 390 OHM +–5% 1/16W
R305	0700041	CF 1K OHM +–5% 1/16W (2718/2918)	R3502J	0100041	CF 100 OHM +–5% 1/8W
R306	0700039	CF 820 OHM +–5% 1/16W	R3503	0700029	CF 150 OHM +–5% 1/16W
R309	0700054	CF 10K OHM +–5% 1/16W	R3504	0700053	CF 8.2K OHM +–5% 1/16W
R312	0700067	CF 100K OHM +–5% 1/16W	R3505	0700041	CF 1K OHM +–5% 1/16W
R317	0700034	CF 330 OHM +–5% 1/16W (2518)	R3506	0150282	VR 500 OHM (B)
R3201	0114147	CF 470 OHM +–5% 1/4W	R351	0700057	CF 18K OHM +–5% 1/16W
R3202	0700067	CF 100K OHM +–5% 1/16W	R352	0700033	CF 270 OHM +–5% 1/16W
R3203	0700061	CF 33K OHM +–5% 1/16W	R353	0700044	CF 1.8K OHM +–5% 1/16W
R3204	0700054	CF 10K OHM +–5% 1/16W	R354	0700047	CF 3.3K OHM +–5% 1/16W
R3205	0700041	CF 1K OHM +–5% 1/16W	R355	0114143	CF 330 OHM +–5% 1/4W
R3206	0150136	VR 5K OHM-B (2518)	R356	0114143	CF 330 OHM +–5% 1/4W
R3207	0700048	CF 3.9K OHM +–5% 1/16W	R357	0114143	CF 330 OHM +–5% 1/4W
R3208	0700048	CF 3.9K OHM +–5% 1/16W	R358	0700027	CF 100 OHM +–5% 1/16W
R3209	0700051	CF 5.6K OHM +–5% 1/16W	R359	0700027	CF 100 OHM +–5% 1/16W
R3210	0700027	CF 100 OHM +–5% 1/16W	R360	0700027	CF 100 OHM +–5% 1/16W
R3211	0700027	CF 100 OHM +–5% 1/16W	R361	0700058	CF 22K OHM +–5% 1/16W
R3212	0700045	CF 2.2K OHM +–5% 1/16W	R363	0700041	CF 1K OHM +–5% 1/16W
R3213	0700045	CF 2.2K OHM +–5% 1/16W	R364	0100053	CF 330 OHM +–5% 1/8W
R3214	0700048	CF 3.9K OHM +–5% 1/16W	R370	0700056	CF 15K OHM +–5% 1/16W (2718/2918)
R3215	0700051	CF 5.6K OHM +–5% 1/16W	R371	0700056	CF 15K OHM +–5% 1/16W (2718/2918)
R3216	0100117	CF 150K OHM +–5% 1/8W	R4012	0700041	CF 1K OHM +–5% 1/16W
R3217	0700039	CF 820 OHM +–5% 1/16W	R4013	0700049	CF 4.7K OHM +–5% 1/16W
R3218	0700049	CF 4.7K OHM +–5% 1/16W	R4014	0700041	CF 1K OHM +–5% 1/16W

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R4015	0700049	CF 4.7K OHM +–5% 1/16W	R4541	0700067	CF 100K OHM +–5% 1/16W (2518)
R4016	0100065	CF 1K OHM +–5% 1/8W	R4548	0700041	CF 1K OHM +–5% 1/16W
R4017	0100065	CF 1K OHM +–5% 1/8W	R455	0700043	CF 1.5K OHM +–5% 1/16W
R4019	0700051	CF 5.6K OHM +–5% 1/16W	R455	0700065	CF 68K OHM +–5% 1/16W
R4020	0700027	CF 100 OHM +–5% 1/16W	R456	0700063	CF 47K OHM +–5% 1/16W
R405	0700041	CF 1K OHM +–5% 1/16W	R456	0700065	CF 68K OHM +–5% 1/16W
R4050	0700046	CF 2.7K OHM +–5% 1/16W	R4560	0700043	CF 1.5K OHM +–5% 1/16W (2518)
R406	0700048	CF 3.9K OHM +–5% 1/16W	R4561	0700054	CF 10K OHM +–5% 1/16W
R412	0700049	CF 4.7K OHM +–5% 1/16W	R4562	0700041	CF 1K OHM +–5% 1/16W
R413	0150155	VR 5K OHM- RV-6	R4563	0100021	CF 15 OHM +–5% 1/8W (2718/2918)
R4401	0700052	CF 6.8K OHM+–5% 1/16W (2918)	R457	0700037	CF 560 OHM +–5% 1/16W
R4402	0700052	CF 6.8K OHM +–5% 1/16W (2918)	R457	0700041	CF 1K OHM +–5% 1/16W
R4403	0150284	VR 2K OHM-B (2918)	R458	0700038	CF 680 OHM +–5% 1/16W
R4404	0700051	CF 5.6K OHM +–5% 1/16W (2918)	R458	0700048	CF 3.9K OHM +–5% 1/16W
R4405	0700051	CF 5.6K OHM +–5% 1/16W (2918)	R459	0100115	CF 120K OHM +–5% 1/8W
R4407	0700054	CF 10K OHM +–5% 1/16W (2918)	R459	0700041	CF 1K OHM +–5% 1/16W
R4408	0700054	CF 10K OHM +–5% 1/16W (2918)	R460	0700027	CF 100 OHM +–5% 1/16W
R4409	0700053	CF 8.2K OHM +–5% 1/16W (2918)	R461	0700036	CF 470 OHM +–5% 1/16W
R441	0700041	CF 1K OHM +–5% 1/16W	R461	0700067	CF 100K OHM +–5% 1/16W
R4410	0700045	CF 2.2K OHM +–5% 1/16W (2918)	R462	0700027	CF 100 OHM +–5% 1/16W
R4411	0700043	CF 1.5K OHM +–5% 1/16W (2918)	R462	0700045	CF 2.2K OHM +–5% 1/16W
R4412	0700027	CF 100 OHM +–5% 1/16W (2918)	R463	0100115	CF 120K OHM +–5% 1/8W
R4413	0700027	CF 100 OHM +–5% 1/16W (2918)	R463	0700045	CF 2.2K OHM +–5% 1/16W
R4414	0100065	CF 1K OHM +–5% 1/8W (2918)	R464	0700027	CF 100 OHM +–5% 1/16W
R4415	0100065	CF 1K OHM +–5% 1/8W (2918)	R464	0700049	CF 4.7K OHM +–5% 1/16W
R4416	0700054	CF 10K OHM +–5% 1/16W (2918)	R465	0700043	CF 1.5K OHM +–5% 1/16W
R4417	0700054	CF 10K OHM +–5% 1/16W (2918)	R466	0700063	CF 47K OHM +–5% 1/16W
R4418	0700041	CF 1K OHM +–5% 1/16W (2918)	R467	0700037	CF 560 OHM +–5% 1/16W
R4419	0700041	CF 1K OHM +–5% 1/16W (2918)	R468	0700038	CF 680 OHM +–5% 1/16W
R442	0700051	CF 5.6K OHM +–5% 1/16W	R469	0700049	CF 4.7K OHM +–5% 1/16W
R4420	0700036	CF 470 OHM +–5% 1/16W (2918)	R470	0700054	CF 10K OHM +–5% 1/16W
R443	0700041	CF 1K OHM +–5% 1/16W	R471	0700049	CF 4.7K OHM +–5% 1/16W
R444	0700051	CF 5.6K OHM +–5% 1/16W	R471	0700064	CF 56K OHM +–5% 1/16W
R4440	0100047	CF 180 OHM +–5% 1/8W	R472	0700027	CF 100 OHM +–5% 1/16W
R445	0700041	CF 1K OHM +–5% 1/16W	R473	0700041	CF 1K OHM +–5% 1/16W
R451	0700027	CF 100 OHM +–5% 1/16W	R481	0100061	CF 680 OHM +–5% 1/8W
R451	0700067	CF 100K OHM +–5% 1/16W	R482	0700034	CF 330 OHM +–5% 1/16W
R4514	0100065	CF 1K OHM +–5% 1/8W	R483	0700045	CF 2.2K OHM +–5% 1/16W
R4515	0700041	CF 1K OHM +–5% 1/16W	R484	0700052	CF 6.8K OHM +–5% 1/16W
R4516	0700041	CF 1K OHM +–5% 1/16W	R485	0700047	CF 3.3K OHM +–5% 1/16W
R452	0700045	CF 2.2K OHM +–5% 1/16W	R486	0700067	CF 100K OHM +–5% 1/16W
R4520	0114161	CF 1K OHM +–5% 1/4W	R487	0700067	CF 100K OHM +–5% 1/16W
R4526	0100047	CF 180 OHM +–5% 1/8W	R488	0700027	CF 100 OHM +–5% 1/16W
R4527	01195051	FR 2.2 OHM +–5% 1/4W	R489	0700043	CF 1.5K OHM +–5% 1/16W
R4528	01195051	FR 2.2 OHM +–5% 1/4W	R490	0100107	CF 56K OHM +–5% 1/8W
R4529	0100047	CF 180 OHM +–5% 1/8W	R5001	0700053	CF 8.2K OHM +–5% 1/16W
R453	0700049	CF 4.7K OHM +–5% 1/16W	R5002	0700049	CF 4.7K OHM +–5% 1/16W
R4532	0700051	CF 5.6K OHM +–5% 1/16W	R5003	0150037	VR 5K OHM-B RS-8
R4533	0100049	CF 220 OHM +–5% 1/8W	R5004	0700027	CF 100 OHM +–5% 1/16W
R4536	0100085	CF 6.8K OHM +–5% 1/8W	R5005	0700059	CF 27K OHM +–5% 1/16W
R454	0700049	CF 4.7K OHM +–5% 1/16W	R5006	0700041	CF 1K OHM +–5% 1/16W
R4540	0700067	CF 100K OHM +–5% 1/16W (2518)	R5007	0700026	CF 82 OHM +–5% 1/16W

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R5008	0700043	CF 1.5K OHM +–5% 1/16W	⚠ R528	0700061	CF 33K OHM +–5% 1/16W
R5009	0700046	CF 2.7K OHM +–5% 1/16W	R529	0700045	CF 2.2K OHM +–5% 1/16W
R501	0700043	CF 1.5K OHM +–5% 1/16W	R530	0700045	CF 2.2K OHM +–5% 1/16W
R5010	0700064	CF 56K OHM +–5% 1/16W	R531	0700061	CF 33K OHM +–5% 1/16W
R5011	0700049	CF 4.7K OHM +–5% 1/16W	R532	0700056	CF 15K OHM +–5% 1/16W
R5012	0700054	CF 10K OHM +–5% 1/16W	R533	0700056	CF 15K OHM +–5% 1/16W
R5013	0700045	CF 2.2K OHM +–5% 1/16W (2518)	R534	0700056	CF 15K OHM +–5% 1/16W
R5014	0700065	CF 68K OHM +–5% 1/16W (2518)	R535	0700057	CF 18K OHM +–5% 1/16W
R5015	0700043	CF 1.5K OHM +–5% 1/16W	R537	0100065	CF 1K OHM +–5% 1/8W
R5016	0700066	CF 82K OHM +–5% 1/16W	R539	0700037	CF 560 OHM +–5% 1/16W
R5017	0700052	CF 6.8K OHM +–5% 1/16W	R540	0700061	CF 33K OHM +–5% 1/16W
R5018	0700042	CF 1.2K OHM +–5% 1/16W	R541	0700055	CF 12K OHM +–5% 1/16W
R5019	0100117	CF 150K OHM +–5% 1/8W (2518)	R542	0700061	CF 33K OHM +–5% 1/16W
R5019	0100121	CF 220K OHM +–5% 1/8W (2718/2918)	R543	0700041	CF 1K OHM +–5% 1/16W
R502	0700037	CF 560 OHM +–5% 1/16W	R544	0700041	CF 1K OHM +–5% 1/16W
R5020	0700051	CF 5.6K OHM +–5% 1/16W (2518)	R545	0150291	VR 100K OHM-B
R5020	0700048	CF 3.9K OHM +–5% 1/16W (2718/2918)	R546	0700044	CF 1.8K OHM +–5% 1/16W
R5021	0700046	CF 2.7K OHM +–5% 1/16W	R548	0100071	CF 1.8K OHM +–5% 1/8W (2718/2918)
R5022	0700067	CF 100K OHM +–5% 1/16W	R5999	0700049	CF 4.7K OHM +–5% 1/16W (2518)
R5023	0700063	CF 47K OHM +–5% 1/16W	R601	0700037	CF 560 OHM +–5% 1/16W
R5024	0700056	CF 15K OHM +–5% 1/16W	R6010	0179561	MG 2.2M OHM +–5% 1/8W
R5025	0100045	CF 150 OHM +–5% 1/8W	R6013	0114161	CF 1K OHM +–5% 1/4W
R5026	0100045	CF 150 OHM +–5% 1/8W	R604	0700054	CF 10K OHM +–5% 1/16W
R5027	0100045	CF 150 OHM +–5% 1/8W	R610	0700054	CF 10K OHM +–5% 1/16W
R5028	0150038	VR 10K OHM-B RS-8	R611	0700057	CF 18K OHM +–5% 1/16W
R5029	0700051	CF 5.6K OHM +–5% 1/16W	R612	0700058	CF 22K OHM +–5% 1/16W
R5030	0700024	CF 56 OHM +–5% 1/16W	R613	0700064	CF 56K OHM +–5% 1/16W
R5031	0700027	CF 100 OHM +–5% 1/16W	R614	0700057	CF 18K OHM +–5% 1/16W
R5032	0114147	CF 470 OHM +–5% 1/4W	R615	0113735	CF 270 OHM +–5% 1/2W
R5033	0700063	CF 47K OHM +–5% 1/16W	R616	0113692	CF 4.7 OHM +–5% 1/2W
R504	0700037	CF 560 OHM +–5% 1/16W	R617	0113688	CF 3.3 OHM +–5% 1/2W
R505	0700038	CF 680 OHM +–5% 1/16W	R618	0150109	VR 200 OHM-B RS-6
R506	0700061	CF 33K OHM +–5% 1/16W	R619	0700026	CF 82 OHM +–5% 1/16W
R508	0700065	CF 68K OHM +–5% 1/16W	R620	0700054	CF 10K OHM +–5% 1/16W
R509	0700065	CF 68K OHM +–5% 1/16W	R624	0700046	CF 2.7K OHM +–5% 1/16W
R510	0700041	CF 1K OHM +–5% 1/16W	R629	0150110	VR 500 OHM-B
R511	0179563	MG 3.3M OHM +–5% 1/8W	R651	0700052	CF 6.8K OHM +–5% 1/16W (2518/2718)
R512	0700048	CF 3.9K OHM +–5% 1/16W	R651	0700049	CF 4.7K OHM +–5% 1/16W (2918)
R513	0700043	CF 1.5K OHM +–5% 1/16W	R652	0700065	CF 68K OHM +–5% 1/16W
R514	0700053	CF 8.2K OHM +–5% 1/16W	R654	0700036	CF 470 OHM +–5% 1/16W (2518)
R515	0179536	MG 1M OHM +–5% 1/8W	R654	0700032	CF 220 OHM +–5% 1/16W (2718)
R516	0700056	CF 15K OHM +–5% 1/16W	R655	0150284	VR 2K OHM-B
R517	0700042	CF 1.2K OHM +–5% 1/16W	R656	0700066	CF 82K OHM +–5% 1/16W
R519	0700067	CF 100K OHM +–5% 1/16W	R657	0150286	VR 5K OHM B
R520	0700067	CF 100K OHM +–5% 1/16W	R658	0700047	CF 3.3K OHM +–5% 1/16W
R521	0700041	CF 1K OHM +–5% 1/16W	R659	0700041	CF 1K OHM +–5% 1/16W
R522	0700045	CF 2.2K OHM +–5% 1/16W	R660	0100077	CF 3.3K OHM +–5% 1/8W
R523	0700039	CF 820 OHM +–5% 1/16W	R661	0100079	CF 3.9K OHM +–5% 1/8W
R524	0700045	CF 2.2K OHM +–5% 1/16W	R662	0700067	CF 100K OHM +–5% 1/16W
R525	0700056	CF 15K OHM +–5% 1/16W	R663	0100089	CF 10K OHM +–5% 1/8W
R526	0700052	CF 6.8K OHM +–5% 1/16W	R666	0700044	CF 1.8K OHM +–5% 1/16W
⚠ R527	0700041	CF 1K OHM +–5% 1/16W	R667	0700063	CF 47K OHM +–5% 1/16W (2518/2718)

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R668	0700057	CF 18K OHM +–5% 1/16W (2518/2718)	R738	0700032	CF 220 OHM +–5% 1/16W
R669	0700058	CF 22K OHM +–5% 1/16W (2518/2718)	R739	0700043	CF 1.5K OHM +–5% 1/16W
R670	0700049	CF 4.7K OHM +–5% 1/16W (2518/2718)	R743	0700055	CF 12K OHM +–5% 1/16W
R671	0700054	CF 10K OHM +–5% 1/16W	R744	0700048	CF 3.9K OHM +–5% 1/16W (2518)
R672	0700051	CF 5.6K OHM +–5% 1/16W	R744	0700051	CF 5.6K OHM +–5% 1/16W (2718/2918)
R673	0700064	CF 56K OHM +–5% 1/16W	R745	0113795	CF 68K OHM +–5% 1/2W
R674	0700045	CF 2.2K OHM +–5% 1/16W (2518)	R747	0100105	CF 47K OHM +–5% 1/8W
R676	0700045	CF 2.2K OHM +–5% 1/16W	R748	0119693	MF 0.39 OHM +–5% 1W
R686	0700037	CF 560 OHM +–5% 1/16W (2918)	R749	0700048	CF 3.9K OHM +–5% 1/16W
R7001	0100049	CF 220 OHM +–5% 1/8W	R750	0700052	CF 6.8K OHM +–5% 1/16W
R7002	0100133	CF 680K OHM +–5% 1/8W	R751	0700035	CF 390 OHM +–5% 1/16W
R7003	0700045	CF 2.2K OHM +–5% 1/16W	R752	0700048	CF 3.9K OHM +–5% 1/16W
R7004	0700048	CF 3.9K OHM +–5% 1/16W	R753	0700043	CF 1.5K OHM +–5% 1/16W
R7005	0100121	CF 220K OHM +–5% 1/8W	R754	0700044	CF 1.8K OHM +–5% 1/16W
R7006	0700054	CF 10K OHM +–5% 1/16W	R755	0700056	CF 15K OHM +–5% 1/16W
R7007	0114161	CF 1K OHM +–5% 1/4W	R756	0113721	CF 68 OHM +–5% 1/2W
R7008	0114161	CF 1K OHM +–5% 1/4W	R761	0114139	CF 220 OHM +–5% 1/4W
R7009	0100069	CF 1.5K OHM +–5% 1/8W	R763	0110229	MF 220 OHM +–5% 2W
R7011	0700048	CF 3.9K OHM +–5% 1/16W	R765	0100097	CF 22K OHM +–5% 1/8W
R7012	0700048	CF 3.9K OHM +–5% 1/16W	R772	0700058	CF 22K OHM +–5% 1/16W
R7014	0179561	MG 2.2M OHM +–5% 1/8W	R776	0700063	CF 47K OHM +–5% 1/16W
R703	0110285	MF 47K OHM +–5% 2W	R777	0113692	CF 4.7 OHM +–5% 1/2W (2918)
R704	0100041	CF 100 OHM +–5% 1/8W	R778	0113692	CF 4.7 OHM +–5% 1/2W (2918)
R705	0100133	CF 680K +–5% 1/8W	R779	0100103	CF 39K OHM +–5% 1/8W (2918)
R706	0700051	CF 5.6K OHM +–5% 1/16W	⚠ R7910	0700039	CF 820 OHM +–5% 1/16W
R708	0100129	CF 470K OHM +–5% 1/8W	⚠ R7911	0700051	CF 5.6K OHM +–5% 1/16W
R710	0150291	VR 100K OHM-B	R792	0700052	CF 6.8K OHM +–5% 1/16W
R711	0700057	CF 18K OHM +–5% 1/16W	R793	0700045	CF 2.2K OHM +–5% 1/16W
R712	0100053	CF 330 OHM +–5% 1/8W	R833	0113815	CF 470K OHM +–5% 1/2W
R713	0700058	CF 22K OHM +–5% 1/16W	R851	0110367	MF 8.2K OHM +–5% 3W
R714	0700033	CF 270 OHM +–5% 1/16W	R852	0110367	MF 8.2K OHM +–5% 3W
R715	0700051	CF 5.6K OHM +–5% 1/16W	R853	0110367	MF 8.2K OHM +–5% 3W
R716	0700051	CF 5.6K OHM +–5% 1/16W	R854	0113760	CF 2.7K OHM +–5% 1/2W
R719	0700034	CF 330 OHM +–5% 1/16W	R855	0113760	CF 2.7K OHM +–5% 1/2W
R7230	0113705	CF 15 OHM +–5% 1/2W	R856	0113760	CF 2.7K OHM +–5% 1/2W
R7237	0100094	CF 16K OHM +–5% 1/8W	R857	0100041	CF 100 OHM +–5% 1/8W
R7238	0700056	CF 15K OHM +–5% 1/16W	R858	0100041	CF 100 OHM +–5% 1/8W
R7239	0700063	CF 47K OHM +–5% 1/16W	R859	0100041	CF 100 OHM +–5% 1/8W
R724	0113762	CF 3.3K OHM +–5% 1/2W	R860	0150109	VR 200 OHM-B RS-6
R725	0110359	MF 3.9K OHM +–5% 3W	R861	0100041	CF 100 OHM +–5% 1/8W
R726	0110361	MF 4.7K OHM +–5% 3W	R862	0100049	CF 220 OHM +–5% 1/8W
R727	0119688	MF 0.22 OHM +–5% 1W	R863	0100041	CF 100 OHM +–5% 1/8W
R728	0700026	CF 82 OHM +–5% 1/16W	R864	0150109	VR 200 OHM-B RS-6
R729	0114145	CF 390 OHM +–5% 1/4W	R865	0100041	CF 100 OHM +–5% 1/8W
R730	0700041	CF 1K OHM +–5% 1/16W	R866	0150113	VR 5K OHM-B RS-6
R731	0700046	CF 2.7K OHM +–5% 1/16W	R867	0100055	CF 390 OHM +–5% 1/8W
R732	0700051	CF 5.6K OHM +–5% 1/16W	R868	0150113	VR 5K OHM-B RS-6
R734	0700042	CF 1.2K OHM +–5% 1/16W	R869	0100055	CF 390 OHM +–5% 1/8W
R735	0700056	CF 15K OHM +–5% 1/16W	R870	0150113	VR 5K OHM-B RS-6
R7352	0700061	CF 33K OHM +–5% 1/16W	R871	0100055	CF 390 OHM +–5% 1/8W
R736	0100103	CF 39K OHM +–5% 1/8W	R872	0100041	CF 100 OHM +–5% 1/8W
R737	0100115	CF 120K OHM +–5% 1/8W	R873	0100041	CF 100 OHM +–5% 1/8W

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
R874	0100041	CF 100 OHM +–5% 1/8W
R875	0100041	CF 100 OHM +–5% 1/8W
R876	0100057	CF 470 OHM +–5% 1/8W
R877	0100041	CF 100 OHM +–5% 1/8W
R878	0100057	CF 470 OHM +–5% 1/8W
R879	0100041	CF 100 OHM +–5% 1/8W
R880	0100057	CF 470 OHM +–5% 1/8W
R881	0100043	CF 120 OHM +–5% 1/8W
R883	0100105	CF 47K OHM +–5% 1/8W
R884	0100105	CF 47K OHM +–5% 1/8W
R885	0100105	CF 47K OHM +–5% 1/8W
R886	0100043	CF 120 OHM +–5% 1/8W
⚠ R901A	0141063	WW 5 OHM +–5% 8W
⚠ R901B	0141063	WW 5 OHM +–5% 8W
R907	0110217	MF 68 OHM +–5% 2W
R909	0113754	CF 1.5K OHM +–5% 1/2W
R910	0113803	CF 150K OHM +–5% 1/2W
R911	0113801	CF 120K OHM +–5% 1/2W
R913	0113801	CF 120K OHM +–5% 1/2W
R915	0113803	CF 150K OHM +–5% 1/2W
R916	0100001	CF 2.2 OHM +–5% 1/8W
R017	0100001	CF 2.2 OHM +–5% 1/8W
R918	0100001	CF 2.2 OHM +–5% 1/8W
R919	0100001	CF 2.2 OHM +–5% 1/8W
R920	0113754	CF 1.5K OHM +–5% 1/2W
R921	0113754	CF 1.5K OHM +–5% 1/2W
R922	0113754	CF 1.5K OHM +–5% 1/2W
R923	0113754	CF 1.5K OHM +–5% 1/2W
R924	0113754	CF 1.5K OHM +–5% 1/2W
R925	0110245	MF 1K OHM +–5% 2W
R926	0114059	CF 56 OHM +–5% 1/4W
R927	0110229	MF 220 OHM +–5% 2W
R929	0110229	MF 220 OHM +–5% 2W
R930	0100089	CF 10K OHM +–5% 1/8W
R931	0100089	CF 10K OHM +–5% 1/8W
R932	0113754	CF 1.5K OHM +–5% 1/2W
R933	0113754	CF 1.5K OHM +–5% 1/2W
R937	0110121	MF 100 OHM +–5% 1W
R938	0100069	CF 1.5K OHM +–5% 1/8W
R939	0100045	CF 150 OHM +–5% 1/8W
R940	0100091	CF 12K OHM +–5% 1/8W
R941	0100073	CF 2.2K OHM +–5%1/8W
R942	0100041	CF 100 OHM +–5% 1/8W
R943	0100089	CF 10K OHM +–5% 1/8W
R944	0100089	CF 10K OHM +–5% 1/8W
R946	0100001	CF 2.2 OHM +–5% 1/8W
R947	0100001	CF 2.2 OHM +–5% 1/8W
R948	0100001	CF 2.2 OHM +–5% 1/8W
R949	0100001	CF 2.2 OHM +–5% 1/8W
R950	0110105	MF 22 OHM +–5% 1W (2518)
R950A	01103448	MF 910 OHM +–5% 3W (2718/2918)
⚠ R951	0119838	FR 0.5 OHM +–5% 1/4W (2518)
⚠ R951	0119838	FR 0.5 OHM +–5% 1/4W
R956	0110325	MF 150 OHM +–5% 3W
⚠ R965	0119508	FR 56 OHM +–5% 1/4W
⚠ R966	0119508	FR 56 OHM +–5% 1/4W
R967	0113795	CF 68K OHM +–5% 1/2W
R968	0100081	CF 4.7K OHM +–5% 1/8W
R969	0100065	CF 1K OHM +–5% 1/8W
R971	0119622	MF 4.3K OHM +–1% 1/8W
R972	0113795	CF 68K OHM +–5% 1/2W
R973	0114161	CF 1K OHM +–5% 1/4W
R975	0100087	CF 8.2K OHM +–5% 1/8W
R976	0114223	CF 82K OHM +–5% 1/4W
R977	0194068	WW 1 OHM +–5% 2W
R978	0100065	CF 1K OHM +–5% 1/8W
⚠ R980	0141167	WW 4.7 OHM +–10% 7W
R981	0100065	CF 1K OHM +–5% 1/8W
R982	0100065	CF 1K OHM +–5% 1/8W
R983	0114169	CF 2.2K OHM +–5% 1/4W
R985	0100089	CF 10K OHM +–5% 1/8W
R986	0100089	CF 10K OHM +–5% 1/8W
R998	0179529	MG 10M OHM +–5% 1/2W
VR951	0150151	VR 500 OHM-B RV-6

I C

⚠ IC1101	2001352	IC M34300N4–657SP (MICON)
⚠ IC1102	2366621	IC LA7910
⚠ IC1103	2366621	IC LA7910
⚠ IC1301	2914951	IC HA11508
⚠ IC1302	2917611	IC LA7016
⚠ IC1303	2917611	IC LA7016
⚠ IC1304	2917611	IC LA7016
⚠ IC1305	2917611	IC LA7016
⚠ IC1306	2917611	IC LA7016
⚠ IC1307	2917611	IC LA7016
⚠ IC251	2916682	IC LA7550H
⚠ IC3201	2381832	IC HA11559NT
⚠ IC3501	2912961	IC M51386L
⚠ IC4001	2366392	IC AN5836
⚠ IC4501	2916321	IC LA4280
⚠ IC5001	2914741	IC AN5635N–A
⚠ IC501	2914733	IC HA51339SP–3
⚠ IC502	2917611	IC LA7016
⚠ IC601	2917361	IC UPC1498H
⚠ IC651	2380651	IC AN5551
⚠ IC7000	2370971	IC LA7950
⚠ IC901	2913101	IC TDA4601
⚠ IC902	2917781	IC CNX82A

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
TRANSISTORS		
Q1101	2320595	TR 2SC458 (D)
Q1102	2009401R	IC PST529C
Q1103	2326872	TR DTC114ES
Q1104	2327773	TR 2SC3413 (C)/(D)
Q1105	2327773	TR 2SC3413 (C)/(D)
Q1106	2327773	TR 2SC3413 (C)/(D)
Q1107	2327773	TR 2SC3413 (C)/(D)
Q1110	2327773	TR 2SC3413 (C)/(D) (2918)
Q1111	2327773	TR2SC3413 (C)/(D)
Q1112	2327773	TR 2SC3413 (C)/(D)
Q1113	2326871	TR DTC124ES
Q1114	2327773	TR 2SC3413 (C)/(D)
Q1115	2326871	TR DTC124ES
Q1116	2327773	TR 2SC3413 (C)/(D)
Q1117	2327773	TR 2SC3413 (C)/(D)
Q1118	2327773	TR 2SC3413 (C)/(D)
Q1301	2320643	TR 2SC1213C
Q1310	2326875	TR DTC144WSTP
Q1311	2327773	TR 2SC3413 (C)/(D)
Q1312	2327773	TR 2SC3413 (C)/(D)
Q1313	2327773	TR 2SC3413 (C)/(D)
Q1314	2320635	TR 2SA673D
Q1315	2327773	TR 2SC3413 (C)/(D)
Q1316	2327773	TR 2SC3413 (C)/(D)
Q201	2326875	TR DTC144WSTP
Q251	2326873	TR DTC144ES
Q252	2326873	TR DTC144ES
Q253	2326873	TR DTC144ES
Q254	2327752	TR 2SA1390 (B)/(C)
Q255	2327773	TR 2SC3413 (C)/(D)
Q256	2326872	TR DTC114ES
Q257	2327772	TR 2SC3413 (B)/(C)
Q258	2326872	TR DTC114ES
Q301	2327773	TR 2SC3413 (C)/(D)
Q302	2327773	TR 2SC3413 (C)/(D)
Q303	2326875	TR DTC144WSTP
Q304	2326875	TR DTC144WSTP
Q311	2320595	TR 2SC458 (D)
Q313	2320635	TR 2SA673D
Q314	2320595	TR 2SC458 (D)
Q315	2320635	TR 2SA673D
Q316	2320635	TR 2SA673D
Q317	2320635	TR 2SA673D
Q3201	2324611	TR 2SD882 (Q)/(P)
Q3202	2327773	TR 2SC3413 (C)/(D)
Q3203	2327773	TR 2SC3413 (C)/(D)
Q3204	2327773	TR 2SC3413 (C)/(D)
Q3205	2327752	TR 2SA1390 (B)/(C)
Q3209	2326875	TR DTC144WSTP
Q4001	2320643	TR 2SC1213C
Q401	2327773	TR 2SC3413 (C)/(D)
Q4401	2327773	TR 2SC3413 (C)/(D) (2918)
Q4402	2327773	TR 2SC3413 (C)/(D) (2918)
Q4403	2327773	TR 2SC3413 (C)/(D) (2918)
Q4404	2327773	TR 2SC3413 (C)/(D) (2918)
R4405	2327773	TR 2SC3413 (C)/(D) (2918)
Q441	2327773	TR 2SC3413 (C)/(D)
Q442	2327773	TR 2SC3413 (C)/(D)
Q4501	2320637	TR 2SA673 (C)/(D)
Q4502	2327772	TR 2SC3413 (B)/(C)
Q451	2312941M	TR 2SC3413BC/1740S–QRTA
Q451	2324733	TR 2SC3399
Q452	2312941M	TR 2SC3413BC/1740S–QRTA
Q452	2324733	TR 2SC3399
Q453	2312941M	TR 2SC3413BC/1740S–QRTA
Q454	2312941M	TR 2SC3413BC/1740S–QRTA
Q471	2327773	TR 2SC3413 (C)/(D)
Q472	2326873	TR DTC144ES
Q473	2326873	TR DTC144ES
Q481	2327773	TR 2SC3413 (C)/(D)
Q482	2327773	TR 2SC3413 (C)/(D)
Q5001	2320637	TR 2SA673 (C)/(D)
Q5002	2320595	TR 2SC458 (D)
Q5003	2320595	TR 2SC458 (D)
Q5004	2324734	TR 2SC3401
Q501	2326875	TR DTC144WSTP
Q502	2326875	TR DTC144WSTP
Q503	2327773	TR 2SC3413 (C)/(D)
Q504	2326875	TR DTC144WSTP
Q505	2326875	TR DTC144WSTP
Q506	2326875	TR DTC144WSTP
Q507	2327773	TR 2SC3413 (C)/(D)
Q508	2327773	TR 2SC3413 (C)/(D)
Q509	2327773	TR 2SC3413 (C)/(D)
Q510	2327773	TR 2SC3413 (C)/(D)
Q6010	2326872	TR DTC114ES
Q6011	2326872	TR DTC114ES
Q651	2323432	TR 2SC1983 R/O/Y
Q657	2327753	TR 2SA1390 (C)/(D)
Q7000	2320595	TR 2SC458 (D)
Q7001	2326872	TR DTC114ES
Q7011	2326872	TR DTC114ES
Q7012	2326872	TR DTC114ES
Q704	2326216	TR 2SC3116 S/T
Q705	2327844	TR 2SD1959–02
Q707	2320681	TR 2SA673A B/C
Q708	2321112	TR 2SA778A
⚠ Q709	2325721	TR 2SC1740S
Q710	2325702	TR 2SA854S Q/R
Q730	2327773	TR 2SC3413 (C)/(D)
Q731	2327773	TR 2SC3413 (C)/(D)
⚠ Q7902	2390022	THYRISTOR SLICON M21C (Y)

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
Q791	2327772	TR 2SC3413 (B)/(C)
⚠ Q851	2321221	TR 2SC1514
⚠ Q852	2327772	TR 2SC3413 (B)/(C)
Q853	2324322	TR 2SC2271/2SC2610–05
⚠ Q854	2321221	TR 2SC1514
Q855	2327772	TR 2SC3413 (B)/(C)
Q856	2324322	TR 2SC2271/2SC2610–05
⚠ Q857	2321221	TR 2SC1514
Q858	2327772	TR 2SC3413 (B)/(C)
⚠ Q859	2324322	TR 2SC2271/2SC2610–05
⚠ Q901	2327844	TR 2SD1959–02
Q902	2325951R	TR BC548B
Q903	2325961R	TR BC558B
Q904	2321591	TR 2SD401A (K)
Q906	2326631	THYRISTOR CR5AS–8
Q951	2312171	TR 2SC3852
Q952	2320663	TR 2SC1213AC
Q953	2325961R	TR BC558B
Q954	2325961R	TR BC558B
Q955	2327773	TR 2SC3413 (C)/(D)

DIODES

D1101	23383211	DI 1SS270
D1106	23383211	DI 1SS270
D1107	23383211	DI 1SS270
D1108	23383211	DI 1SS270
D1109	23383211	DI 1SS270
D1110	23383211	DI 1SS270
D1111	23383211	DI 1SS270
D1112	23383211	DI 1SS270
D1113	23383211	DI 1SS270
D1114	23383211	DI 1SS270
D1115	23383211	DI 1SS270
D1116	23383211	DI 1SS270 (2518/2918)
D1117	23383211	DI 1SS270
D1118	23383211	DI 1SS270
D1120	2339691	LED SLH–56VC77F
D1121	23383211	DI 1SS270
D1122	23383211	DI 1SS270
D1125	23383211	DI 1SS270 (2718/2918)
D1126	23383211	DI 1SS270
D1127	23383211	DI 1SS270
D1130	23383211	DI 1SS270
D1132	23383211	DI 1SS270
D1133	23383211	DI 1SS270
D1134	23383211	DI 1SS270
D1135	23383211	DI 1SS270
D1136	23383211	DI 1SS270
D1137	23383211	DI 1SS270
D1138	23383211	DI 1SS270
D1139	23383211	DI 1SS270
D1143	23383211	DI 1SS270
D1144	2330351	DI 1SS270 (2718/2918)
D1304	23383211	DI 1SS270
D201	23383211	DI 1SS270
D202	23383211	DI 1SS270
D251	23383211	DI 1SS270
D252	23383211	DI 1SS270
D253	23383211	DI 1SS270
D254	23383211	DI 1SS270
D301	23383211	DI 1SS270
D303	23383211	DI 1SS270
D304	23383211	DI 1SS270
D306	23383211	DI 1SS270
D3201	23383211	DI 1SS270
D3202	23383211	DI 1SS270
D3203	23383211	DI 1SS270
D3805	23383211	DI 1SS270
D441	23383211	DI 1SS270
D442	23383211	DI 1SS270
D4501	23394911	DI AM01Z
D5001	2330351	DI 1S2076
D5002	2330351	DI 1S2076
D501	23383211	DI 1SS270
D502	23383211	DI 1SS270
D503	23383211	DI 1SS270
D601	23383211	DI 1SS270
D6012	23383211	DI 1SS270
D602	23373411	DI 1SS270A
D603	23394911	DI AM01Z
D605	23383211	DI 1SS270
D606	23383211	DI 1SS270
D607	23383211	DI 1SS270
D651	23383211	DI 1SS270
D652	23394911	DI AM01Z
D653	23383211	DI 1SS270 (2918)
D654	23383211	DI 1SS270 (2918)
D655	23383211	DI 1SS270 (2918)
D656	23383211	DI 1SS270 (2918)
D7001	23383211	DI 1SS270
D7002	23383211	DI 1SS270
D7003	23383211	DI 1SS270
D701	23383211	DI 1SS270
D7011	23383211	DI 1SS270
D702	23383211	DI 1SS270
D703	2344071	DI ERC20M–04
D704	2338902	DI DFM1SA4
D705	23394811	DI AS01Z
D707	2338902	DI DFM1SA4
D708	2398611	DI 1SS254

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
D709	23383211	DI 1SS270
D711	2338902	DI DFM1SA4
D712	23394811	DI AS01Z
D713	23383211	DI 1SS270
D716	2338902	DI DFM1SA4 (2918)
D7202	2343981	DI ERD07–15
D851	23383211	DI 1SS270
D852	23383211	DI 1SS270
D853	23383211	DI 1SS270
D901	2338314	DI RBV–406M LF–A
D902	23394811	DI AS01Z
D903	23394811	DI AS01Z
D904	23394811	DI AS01Z
D905	2333001	DI RU2M
D907	23394811	DI AS01Z
D912	23394811	DI AS01Z
D950	23389311	DI FMG–G26S
D951	23394811	DI AS01Z (2518)
D952	2338944	DI FML–G12S (F)
D953	2338944	DI FML–G12S (F)
D954	2336501	DI 1N4148
D955	23394811	DI AS01Z
D957	23394811	DI AS01Z
ZD1101	2339852	ZD HZS7–A2
ZD1102	2339858M	ZD HZS7–C2
ZD1103	2335991	ZD HZT–33
ZD1104	2339829	DIODE–ZENER HZS4C3 (2518)
ZD1105	2339852	ZD HZS7–A2
ZD1106	2339852	ZD HZS7–A2
ZD1107	2339872	ZD HZS11A2 (2718/2918)
ZD1301	2339151	ZD HZS12C1L TA
ZD1302	2339151	ZD HZS12C1L TA
ZD301	2331849	ZD HZ–12 (C3)
ZD302	2331849	ZD HZ–12 (C3)
ZD303	2331849	ZD HZ–12 (C3)
ZD3201	2339846M	ZD HZS6B3TA
ZD3202	2339825	ZD HZS4B2
ZD4001	2331155	ZD HZ–12 (C1/C2/C3)
ZD4002	2331155	ZD HZ–12 (C1/C2/C3)
ZD4508	2331845	ZD HZ–12 (B2)
ZD4509	2331845	ZD HZ–12 (B2)
ZD4510	2331842	ZD HZ–12 (A2)
ZD5001	2331155	ZD HZ–12 (C1/C2/C3)
ZD 601	2339151	ZD HZS12C1L TA
ZD602	2339825	ZD HZS4B2
ZD6201	2339868M	ZD HZS9C2TA
ZD651	2339846M	ZD HZS6B3TA (2718)
ZD652	2331834	ZD HZ–11 B1 (2518)
ZD7001	2339828	ZD HZS4C2
ZD703	2339212M	ZD HZS24–2L TA
ZD704	2339848	ZD HZS–6–C2
⚠ ZD708	2339801	ZD HZS2B1
ZD709	2339889	ZD HZS12C3
ZD901	2334022	ZD RD2.0EB
ZD902	2334243	ZD RD16E (B2)
ZD903	2334052	ZD RD2.7EB1
ZD904	2331844	ZD HZ12 (B) 1
ZD905	2331842	ZD HZ–12 (A2)
ZD930	2331155	ZD HZ–12 (C1/C2/C3)
ZD951	2331846	ZD HZ–12 (B) 3
ZD952	2334153	ZD RD6.8EB2
ZD953	2331799	ZD HZ–5 (C) 3

TRANSFORMERS

T5001	2143563	BEL FILTER TRANSFORMER
T501	2143341	7PL COIL
T701	2260291	HOLIZONTAL DRIVE TRANSFORMER
⚠ T702	2435373	FLYBACK TRANSFORMER
T703	2272761	OVER SATURARION TRANSFORMER
⚠ T901	2215581	POWER TRANSFORMER

FUSES

⚠ F901	2720404	FUSE T4.0A
⚠ F950	2721704	DUSE 2A

COMPOUND COMPONENTS

⚠ CP001	2786831	PRE–AMP.
CP050	2150201	TRAP COIL
CP051	2114327	TRAP COIL
⚠ CP1101	2381123	REMOTE CONTROL RECEIVER SPS–409–1C
CP1102	2791754R	EMI FILTER 100PF
CP1103	2791754R	EMI FILTER 100PF
CP1104	2791754R	EMI FILTER 100PF
CP1105	2791754R	EMI FILTER 100PF
CP1106	2791754R	EMI FILTER 100PF
CP1107	2791754R	EMI FILTER 100PF
CP1108	2791754R	EMI FILTER 100PF
⚠ CP201	2300345	SAW FILTER HW3025
CP202	2142243	CERAMIC TRAP
CP203	2143473	TRAP COIL
CP204	2142241	CERAMIC FILTER 4.5MHz
CP220	2142331	CERAMIC TRAP 4.5MHz
CP221	2142331	CERAMIC TRAP 4.5MHz
CP301	2143891	LC FILTER
CP3201	2163971	CERAMIC FILTER

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
MF441	2142601	CERAMIC FILTER 4.5MHz
MF442	2142603	CERAMIC FILTER 6.0MB
MF451	2143571	CERAMIC DISC
MF452	2143572	6.0M CERAMIC DISCRIMINETER
MF471	2142602	CERAMIC FILTER
MF472	2142603	CERAMIC FILTER 6.0MB
MF473	2142604	CERAMIC FILTER 6.5MB
COILS		
L1101	2122956	LA AXIAL COIL 100 MICRO H ±10%
L1102	2122929	LAL AXIAL COIL
L1103	2122956	LA AXIAL COIL 100 MICRO H ±10%
L1104	2123755	RADIAL COIL
L1301	2122956	LA AXIAL COIL 100 MICRO H ±10%
L1303	2122956	LA AXIAL COIL 100 MICRO H ±10%
L1304	2122956	LA AXIAL COIL 100 MICRO H ±10%
L1308	2122956	LA AXIAL COIL 100 MICRO H ±10%
L206	2122253	LA AXIAL COIL 100 MICRO H
L251	2122921	LA AXIAL COIL
L252	2142023	TRAP COIL
L253	2122941	LA AXIAL COIL
L254	2122943	LA AXIAL COIL 10 MICRO H ±10%
L255	2122941	LA AXIAL COIL
L256	2143601	FILTER COIL
L257	2143811	HIGH FREQUENCY COIL
L258	2122234	LA AXIAL COIL
L301	2122253	LA AXIAL COIL 100 MICRO H
L302	2122956	LA AXIAL COIL 100 MICRO H ±10%
L304	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3201	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3202	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3501	2122953	LA AXIAL COIL 56 MICRO H
L3502	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3503	2145201	COIL
L3804	2122956	LA AXIAL COIL 100 MICRO H ±10%
L4001	2122253	LA AXIAL COIL 100 MICRO H (2518)
L441	2122949	LA AXIAL COIL 33 MICRO H ±10%
L451	2122947	LA AXIAL COIL 22 MICRO H ±10%
L5001	2160831	SETTLE COIL
L5002	2143561	DISCRI COIL
L5003	2122945	LA AXIAL COIL 15 MICRO H ±10%
L5004	2143561	DISCRI COIL
L5005	2143561	DISCRI COIL
L5006	2122945	LA AXIAL COIL 15 MICRO H ±10%
L501	2122944	LA AXIAL COIL 12 MICRO H
L502	2122944	LA AXIAL COIL 12 MICRO H
L503	2122943	LA AXIAL COIL 10 MICRO H ±10%
L504	2122942	LA AXIAL COIL 8.2 MICRO H ±10%
L507	2143621	PHASE COIL
L508	2123291M	LAL AXIAL COIL
L7001	2122956	LA AXIAL COIL 100 MICRO H ±10%
L702	2220511	TUNING COIL
L703	2220513	COIL 0.01H
L704	2165761	LINE COIL
L705	2220584	CHOKE COIL TSL0707330K
L706	2220583	COIL
L707	2220583	COIL
L708	2122094	FIXED COIL
L709	2120486	FILTER COIL 4700 MICRO H
L712	2120482	FILTER COIL 100 MICRO H ±10%
L713	2123469M	FERRITE BEADS CORE READ 2.3
L714	2771892	FERRITE BEADS CORE 004
L715	2771892	FERRITE BEADS CORE 004
L717	2123461	FERRITE BEADS CORE (2518/2718)
L901	2123504	LINE FILTER
L905	2164788	DEGAUSSING COIL (2518)
L905	2166021	DEGAUSSING COIL (2718)
L905	2166212	DEGAUSSING COIL (2918)
L906	2123781	FILTER COIL
L907	2123781	FILTER COIL
L927	2122095	FILTER COIL 27 MICRO H (2718/2918)
SWITCHS		
S1101	2633401	PUSH SWITCH
S1102	2633171	5 KEY TACT SWITCH 5P
⚠ S901	2632509	PUSH SWITCH
MISCELLANEOUS		
	2663822	3P SUB MINI PLUG PIN
	2665272	4P PLUG PIN WITH BASE
	3754041	PCB HOLDER
	3761011	PWB HOLDER F
	4520881	M3x8 SCREW WITH WASHER
	4236051	HEAT SINK
	4519506	3x8 B TIGHT TAPPING SCREW
	4520883	M3x12 SCREW WITH WASHER
	4520883	M3x12 SCREW WITH WASHER
	8821114	NUT 3
	3742921	PLASTIC RIVET
	8815126	LOCKING WASHER 4
	8813126	4 SPRING WASHER
	4159423	M3x12 SCREW W/WASHER
	4159412	3x12 TAPPING SCREW
	8813124	WASHER
	3763752	SK BINDER
	4519511	4x12 TAPPING SCREW
	4519512	TAPPING SCREW 4x16 MM
	2663829	7P MINI–PLUG PIN

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
DL301	2793282	DELAY LINE
DL3501	2791101	DERAY LINE
DL501	2791155	DERAY LINE
E	2773671	CF MAGNET
⚠ E	2953341	CRT SOCKET
E1	2786224	CPT EARTH WIRE
E4002	2663132	3P PLUG PIN WITH BASE
E4003	2661753	PIN PLUG WITH BASE
⚠ E903	2744301	POWER CORD
E911	2720221	FUSE HOLDER
E912	2661756	1P PLUG PIN WITH BASE
E921	4520881	M3x8 SCREW WITH WASHER
E923	4520881	M3x8 SCREW WITH WASHER
E930	3720501	LEAD CLAMP
E940	2661756	1P PLUG PIN WITH BASE
E946	2663132	3P PLUG PIN WITH BASE
E951	2661753	PIN PLUG WITH BASE
E956	2661753	PIN PLUG WITH BASE
E957	2661753	PIN PLUG WITH BASE
FB1101	2774651	FERRITE BEADS CORE
FB251	2123461	FERRITE BEADS CORE
FB301	2123461	FERRITE BEADS CORE
FB302	2123461	FERRITE BEADS CORE
FB303	2123461	FERRITE BEADS CORE
FB501	2774631	FERRITE BEADS CORE
FB901	2123464	FERRITE BEADS CORE
FB901A	2771892	FERRITE BEADS CORE 004
FB901B	2771892	FERRITE BEADS CORE 004
FB901C	2771892	FERRITE BEADS CORE 004
FB950	2123462	FERRITE BEADS CORE
FB952	2123462	FERRITE BEADS CORE
FB953	2123462	FERRITE BEADS CORE
FB954	2123462	FERRITE BEADS CORE
FB956	2123462	FERRITE BEADS CORE
JA1301	2983082	0P PINJACK WITH S TERMINAL
JA1302	2983095	8P PIN JACK WITH SW
JA1303	2673001	3P PIN JACK
N	4520881	M3x8 SCREW WITH WASHER
P1P1	2661756	1P PLUG PIN WITH BASE
P2L	2663823	4P PLUG PIN
P2R	2663825	6P MINI—PLUG PIN
SG851	2340037	SPARK GAP
SG852	2340037	SPARK GAP
⚠ SP401	2413301	SPEAKER 10M
⚠ SP402	2413311	SPEAKER 4x6D (TWEETER)
⚠ SP403	2413301	SPEAKER 10M
⚠ SP404	2413311	SPEAKER 4x6D (TWEETER)
⚠ TH901	2340542	TH 160Y
⚠ U001	2428332	TUNER ET-575S
⚠ U1001	2970507	REMOTE CONTROL TRANSMITTER CLE-866E
⚠ V1	2358323	COLOR PICTURE TUBE A59JVQ60X (C) ENG
W916	3763752	SK BINDER
X1101	2165081	CERAMIC OSCILLATER
X481	2166041	CERAMIC FILTER 512KHz
X501	2787572	CRYSTAL
X502	27885911	CRYSTAL
X701	2786683	CERAMIC OSCILLATOR

MISCELLANEOUS (2518)

	4518376	SCREW
	4520232	4x16 DT SCREW
	3716271	HADEL (R) 29
	3816272	HANDLE (L) 29
	4519512	TAPPING SCREW 4x16 MM
	4519512	TAPPING SCREW 4x16 MM
	3825881	TRIM (REAR COVER)
	4518772	3x12 TNE
	4519501	3x10 B—TIGHT TAPPING SCREW
	4519511	4x12 TAPPING SCREW
	8811114	3 SPRING WASHER
	3871124	SPEAKER HOLDER SASS R
	4309801	SPEAKER NET (B)
	4519501	3x10 B—TIGHT TAPPING SCREW
	3871125	SPEAKER HOLDER SASS L
	4309801	SPEAKER NET (B)
	8711616	SCREW M4x16
	8811116	WASHER M4
	8821116	M4 NUT
	8813126	4 SPRING WASHER
	3102677	FRAME ASS'Y
	4519512	TAPPING SCREW 4x16 MM
	3815071	POWER KNOB
	3332453	SPRING FOR KNOB
	4159421	3x8 TAPPING SCREW
	3814906	CONTROL DOOR
	3785043	PUSH LOCK A
	4137975	4x16 ZA R SCREW
	4309791	SPEAKER NET (A)
	3162394	REAR COVER ASS'Y
	3761812	CORD HOLDER
	3727972	HOLDER—AC LINE CORD
	3742921	PLASTIC RIVET
DY	2443061	DEFLECTION YOKE
FB951	2123462	FERRITE BEADS CORE
N	4615641	WEDGE
DL501	2791155	DERAY LINE (2518)

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
		MISCELLANEOUS (2718/2918)			
	3401143	PWB ASS'Y POWER SUPPLY SOUND BLOCK			
	3871171	ANTENNA HOLDER			
	3162821	REAR COVER ASS'Y			
	3825881	TRIM (REAR COVER)			
	3761812	CORD HOLDER			
	3727972	HOLDER–AC LINE CORD			
	3742921	PLASTIC RIVET			
	4518376	SCREW			
	4520232	4 x 16 DT SCREW			
	3103161	FRAME ASS'Y			
	4519512	TAPPING SCREW 4 x 16 MM			
	3815071	POWER KNOB			
	3332453	SPRING FOR KNOB			
	4159421	3 x 8 TAPPING SCREW			
	3814906	CONTROL DOOR			
	3785043	PUSH LOCK A			
	4137975	4 x 16 ZA R SCREW			
	4309791	SPEAKER NET (A)			
	3816275	HANDLE (R)			
	3816276	HANDLE (L)			
	3871121	SPEAKER HOLDER R S–ASS'Y			
	4309801	SPEAKER NET (B)			
	4519501	3 x 10 B–TIGHT TAPPING SCREW			
	4519511	4 x 12 TAPPING SCREW			
	3871122	SPEAKER HOLDER L S–ASS'Y			
	4309801	SPEAKER NET (B)			
	4519501	3 x 10 B–TIGHT TAPPING SCREW			
	4519511	4 x 12 TAPPING SCREW			
	8711616	SCREW M4 x 16 (2718)			
	8811116	WASHER M4			
	8813126	4 SPRING WASHER			
	8711616	SCREW M4 x 16 (2918)			
	4519511	4 x 12 TAPPING SCREW			
	4519512	TAPPING SCREW 4 x 16 MM			
	4519412	3 x 12 TAPPING SCREW (2918)			
	4159412	3 x 12 TAPPING SCREW (2718)			
	2663829	7P MINI–PLUG PIN			
E004	2982291	ANTENNA ADAPTOR			
E006	2669221	COUPLER			
E008	2905241	ANTENNA ADAPTOR			
E901	3763751	SK BINDER			
E1	2771831	C–F MAGNET (2918)			
E902	3333922	EARTH SPRING (2918)			
E903	2744305	POWER CORD			
E903	2994512	CRT EARTH READ			
U701	2442982	DEFLECTION YOKE–C110–27EA (2718)			
U701	2443261	DEFLECTION YOKE (2918)			
Z901	3772201	AC CORD HOLDER			